

Pro Mern Stack Full Stack Web App Development With Mongo Express React And Node

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Modern PHP
The Full Stack Developer
Eloquent JavaScript
Fullstack React
Introducing Markdown and Pandoc
Mastering Full Stack React Web Development
Learn React Hooks
Modern Full-Stack Development
Learning React
Learning React
Spring 5 Recipes
Learning Web Development with React and Bootstrap
Beginning Node.js, Express & MongoDB Development
Node.js, MongoDB, React, React Native
Full-Stack Fundamentals and Beyond
Pro React 16
Web Development with Node and Express
Practical Node.js
Getting Mean with Mongo, Express, Angular, and Node
Pro MERN Stack

Hands-On Full-Stack Web Development with GraphQL and React

Understand the technical foundations, as well as the non-programming skills needed to be a successful full stack web developer. This book reveals the reasons why a truly successful full stack developer does more than write code. You will learn the principles of the topics needed to help a developer new to agile or full stack working—UX, project management, QA, product management, and more—all from the point of view of a developer. Covering these skills alongside the fundamentals and foundations of modern web development, rather than specifics of current technologies and frameworks (which can age quickly), all programming examples are given in the context of the web as it is in 2018. Although you need to feel comfortable working on code at the system, database, API, middleware or user interface level, depending on the task in hand, you also need to be able to deal with the big picture and the little details. The Full Stack Developer recognizes skills beyond the technical, and gives foundational knowledge of the wide set of skills needed in a modern software development team. What You'll Learn Plan your work including Agile vs Waterfall, tools, scrum, kanban and continuous delivery Translate UX into code: grids, component libraries and style guides Design systems and system architectures (microservices to monoliths) Review patterns for APIs (SOAP, AJAX, REST), defining API domains, patterns for REST APIs and more API goodness Study the various front-end design patterns you need to know Store data, what to consider for security, deployment, in production and more Who This Book Is For New graduates or junior developers who are transitioning to working as part of a larger team structure in a multi-disciplinary teams and developers previously focused on only front-end or back-end dev transitioning into full stack.

Introduction to Parallel Computing

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Traditional web dev stacks use a different programming language in every layer, resulting in a complex mashup of code and frameworks. Developers and businesses love it because it's scalable and cost-effective. End users love it because the apps created with it are fast and responsive. It's a win-win-win! Getting MEAN, Second Edition is completely revised and updated to cover Angular 2, Node 6 and the latest mainstream release of JavaScript ES2015 (ES6). Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

Full-Stack React Projects

In this book, we take you on a fun, hands-on and pragmatic journey to learning Node.js, Express and MongoDB development. You'll start building your first Node.js app within minutes. Every chapter is written in a bite-sized manner and straight to the point as I don't want to waste your time (and most certainly mine) on the content you don't need. In the end, you will have the skills to create a blog app and deploy it to the Internet. In the course of this book, we will cover: Chapter 1: Introduction Chapter 2: Introduction to npm & Express Chapter 3: Beginning our Blog Project Chapter 4: Templating Engines Chapter 5: Introduction to MongoDB Chapter 6: Applying MongoDB to our Project Chapter 7: Uploading an Image with Express Chapter 8: Introduction to Express Middleware Chapter 9: Refactoring to MVC Chapter 10: User Registration Chapter 11: User Authentication with Express Sessions Chapter 12: Showing Validation Errors Chapter 13: Relating Post Collection with User Collection Chapter 14: Adding a WYSIWYG Editor Chapter 15: Using MongoDB Atlas Chapter 16: Deploying Web Apps on Heroku The goal of this book is to teach you Node.js, Express and MongoDB development in a manageable way without overwhelming you. We focus only on the essentials and cover the material in a hands-on practice manner for you to code along. About the Reader No previous knowledge on Node.js development required, but you should have basic programming knowledge. About the Author Greg Lim is a technologist and author of several programming books. Greg has many years in teaching programming in tertiary institutions and he places special emphasis on learning by doing.

Advanced Node.js Development

Learn how to create dynamic full-stack applications with ReactJS and other leading JavaScript tools - smarter web development starts here About This Book* Harness the impressive power of ReactJS and rethink full-stack web development* Build dynamic web applications using the tools created by the innovators driving the tech industry* Created to make you a smarter, more confident web developer Who This Book Is For This book is for JavaScript developers who want to create highly scalable, enterprise-grade apps. Basic knowledge of ReactJS is necessary, however you do not need detailed knowledge of the other stack components such as NodeJS, Express, MongoDB, or Falcor. What You Will Learn* See how to build a full-stack app that is scalable and designed for the demands of modern users* Create a powerful JWT-based authentication full-stack "starter-kit"* Make your app extremely stable and resilient with Redux and its immutable single state tree* Explore the new possibilities given by Falcor, the middleware built by Netflix* Find out how Redux works alongside ReactJS - and how it makes building an isomorphic

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app easier* Deploy and maintain your apps successfully using Docker and AWS!n DetailFull-stack web development is being redefined by the impact of ReactJS. If MEAN demonstrated just how effective combining JavaScript frameworks and tools could be for the modern web developer, by replacing Angular with React, developers have an easier way to build isomorphic web applications where code can run on both the client and server.This book will get you up to speed with one of the latest strategies to meet the demands of today's dynamic and data-intensive web. Combining detailed insights and guidance with practical and actionable information that will ensure you can build a complete isomorphic web app, it's an essential resource for the forward-thinking developer.You'll learn how to create a reliable and powerful back-end platform with Node.js and Express, as well as exploring how to use MongoDB as the primary database. You'll see how its flexibility is a core part of any full-stack developer's workflow, as well as learning how to use Mongoose alongside it to make data storage safer and more reliable.You'll also get to grips with Redux, and discover how it perfectly complements React to help you to create consistent and stable applications, providing a single immutable store for your entire application, which means that achieving the level of dynamism you want is easier.This book is about more than just dressing up past trends in a new name. It's about the future of development, and about full-stack development with a cutting edge. With insights and guidance on Falcor, the impressive middleware that powers the Netflix UI, the full-stack puzzle will almost be complete. But we'll take you further, beyond development and into deployment, as you learn how to get your application out there using AWS and Docker, which gives you full control over how you manage and maintain your app once it's being used.

Full Stack JavaScript Development With MEAN

LEARN REACT TODAY The up-to-date, in-depth, complete guide to React and friends. Become a ReactJS expert today

Learning JavaScript Design Patterns

Build web applications with MongoDB, ExpressJS, React, and Node Key Features Build applications with the MERN stack Work with each component of the MERN stack Become confident with MERN and ready for more! Book Description The MERN stack is a collection of great tools—MongoDB, Express.js, React, and Node—that provide a strong base for a developer to build easily maintainable web applications. With each of them a JavaScript or JavaScript-based technology, having a shared programming language means it takes less time to develop web applications. This book focuses on providing key tasks that can help you get started, learn, understand, and build full-stack web applications. It walks you through the process of installing all the requirements and project setup to build client-side React web applications, managing synchronous and asynchronous data flows with Redux, and building real-time web applications with Socket.IO, RESTful APIs, and other concepts. This book gives you practical and clear hands-on experience so you can begin building a full-stack MERN web application. Quick Start Guides are focused, shorter titles that provide a faster paced introduction to a technology. They are for people who don't need all the detail at this point in their learning curve. The presentation has been streamlined to concentrate on the

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things you really need to know. What you will learn Get started with the MERN stack Install Node.js and configure MongoDB Build RESTful APIs with Express.js and Mongoose Build real-time applications with Socket.IO Manage synchronous and asynchronous data flows with Redux Build web applications with React Who this book is for The book is for JavaScript developers who want to get started with the MERN Stack.

JavaScript Everywhere

Unleash the power of MERN stack by building diverse web applications using React, Node.js, Express, and MongoDB Key Features Create dynamic web applications with the MERN stack Leverage the power of React in building interactive and complex user interfaces Unlock the potential of Node, Express, and MongoDB to build modern full-stack applications Book Description The benefits of using a full JavaScript stack for web development are undeniable, especially when robust and widely adopted technologies such as React, Node, and Express are available. Combining the power of React with industry-tested, server-side technologies, such as Node, Express, and MongoDB, creates a diverse array of possibilities when developing real-world web applications. This book guides you through preparing the development environment for MERN stack-based web development, to creating a basic skeleton application and extending it to build four different web applications. These applications include a social media, an online marketplace, a media streaming, and a web-based game application with virtual reality features. While learning to set up the stack and developing a diverse range of applications with this book, you will grasp the inner workings of the MERN stack, extend its capabilities for complex features, and gain actionable knowledge of how to prepare MERN-based applications to meet the growing demands of real-world web applications. What you will learn Set up your development environment and develop a MERN application Implement user authentication and authorization using JSON Web Tokens Build a social media application by extending the basic MERN application Create an online marketplace application with shopping cart and Stripe payments Develop a media streaming application using MongoDB GridFS Implement server-side rendering with data to improve SEO Set up and use React 360 to develop user interfaces with VR capabilities Learn industry best practices to make MERN stack applications reliable and scalable Who this book is for Full-Stack React Web Development Projects is for JavaScript developers who have some experience with React, but no previous experience with full-stack development involving Node, Express, and MongoDB, and who want practical guidelines to start building different types of real-world web applications with this stack.

Learning Node.js Development

JavaScript is at the heart of almost every modern Web application, whether it's Google Apps, Twitter, or the newest browser-based game. Though it's simple for beginners to pick up and play with, JavaScript is not a toy—it's a flexible and complex language that can be used to build full-scale applications. Eloquent JavaScript dives into this flourishing language and teaches you to write code that's beautiful and effective. By immersing you in example code and encouraging experimentation right from the start, the author quickly gives you the tools you need to build your own programs. As you follow along with examples like an

artificial life simulation and a version of the classic game Sokoban, you'll learn to:

- Understand the essential elements of programming: syntax, control, and data
- Use object-oriented and functional programming techniques to organize and clarify your programs
- Script the browser and make basic Web applications
- Work with tools like regular expressions and XMLHttpRequest objects

And since programming is an art that's best learned by doing, all example code is available online in an interactive sandbox for you to experiment with. With Eloquent JavaScript as your guide, you can tweak, expand, and modify the author's code, or throw it away and build your own creations from scratch. Before you know it, you'll be fluent in the language of the Web.

Internet Business Models and Strategies

While there have been quite a few attempts to get JavaScript working as a server-side language, Node.js (frequently just called Node) has been the first environment that's gained any traction. It's now used by companies such as Netflix, Uber and Paypal to power their web apps. Node allows for blazingly fast performance; thanks to its event loop model, common tasks like network connection and database I/O can be executed very quickly indeed. In this book, we'll take a look at a selection of the related tools and skills that will make you a much more productive Node developer. It contains:

- Unit Test Your JavaScript Using Mocha and Chai by Jani Hartikainen
- An Introduction to Functional JavaScript by M. David Green
- An Introduction to Gulp.js by Craig Buckler
- A Side-by-side Comparison of Express, Koa and Hapi.js by Olayinka Omole
- An Introduction to Sails.js by Ahmed Bouchefra
- Building Apps and Services with the Hapi.js Framework by Mark Brown
- Create New Express.js Apps in Minutes with Express Generator by Paul Sauve
- Local Authentication Using Passport in Node.js by Paul Orac
- An Introduction to MongoDB by Manjunath M

This book is for anyone who wants to start learning server-side development with Node.js. Familiarity with JavaScript is assumed.

MERN Quick Start Guide

If you want to learn how to build efficient user interfaces with React, this is your book. Authors Alex Banks and Eve Porcello show you how to create UIs with this small JavaScript library that can deftly display data changes on large-scale, data-driven websites without page reloads. Along the way, you'll learn how to work with functional programming and the latest ECMAScript features. Developed by Facebook, and used by companies including Netflix, Walmart, and The New York Times for large parts of their web interfaces, React is quickly growing in use. By learning how to build React components with this hands-on guide, you'll fully understand how useful React can be in your organization. Learn key functional programming concepts with JavaScript Peek under the hood to understand how React runs in the browser Create application presentation layers by mounting and composing React components Use component trees to manage data and reduce the time you spend debugging applications Explore React's component lifecycle and use it to load data and improve UI performance Use a routing solution for browser history, bookmarks, and other features of single-page applications Learn how to structure React applications with servers in mind

Pro MERN Stack

Assemble the complete stack required to build a modern web app using MongoDB, Express, React, and Node. This book also covers many other complementary tools: React Router, GraphQL, React-Bootstrap, Babel, and Webpack. This new edition will use the latest version of React (React 16) and the latest React Router (React Router 4), which has a significantly different approach to routing compared to React Router 2 which was used in the first edition of the book. Though the primary focus of Pro MERN Stack is to equip you with all that is required to build a full-fledged web application, a large portion of the book will be devoted to React 16. The popular MEAN (MongoDB, Express, AngularJS, Node) stack introduced Single Page Apps (SPAs) and front-end Model-View-Controller (MVC) as new and efficient paradigms. Facebook's React is a technology that competes indirectly with AngularJS. It is not a full-fledged MVC framework. It is a JavaScript library for building user interfaces (in some sense the View part). Yet, it is possible to build a web app by replacing AngularJS with React – hence the term MERN stack. What You Will Learn Discover the features of React 16 to get the maximum out of this library Gain the basics of MongoDB, Express, and Node to build a web app Work with other libraries complementary to React, including React-Bootstrap, React Router, and GraphQL Use tools such as Babel and Webpack required to build JavaScript-based SPAs Tie all the components together to build a complete web app. Who This Book Is For Developers and architects who have prior experience in any web app stack other than the MERN stack will find the book useful to learn about this modern stack. Prior knowledge of JavaScript, HTML, and CSS is required.

React Quickly

A comprehensive, easy-to-follow guide to creating complete Node apps and understanding how to build, deploy, and test your own apps. Key Features Entirely project-based and practical Explains the "Why" of Node.js features, not just the "how", providing you with a deep understanding and enabling you to easily apply concepts in your own applications Covers the full range of technologies around Node.js – NPM, version control with Git, and much more Book Description Learning Node.js Development is a practical, project-based book that provides you with all you need to get started as a Node.js developer. Node is a ubiquitous technology on the modern web, and an essential part of any web developers' toolkit. If you are looking to create real-world Node applications, or you want to switch careers or launch a side project to generate some extra income, then you're in the right place. This book has been written around a single goal—turning you into a professional Node developer capable of developing, testing, and deploying real-world production applications. Learning Node.js Development is built from the ground up around the latest version of Node.js (version 9.x.x). You'll be learning all the cutting-edge features available only in the latest software versions. This book cuts through the mass of information available around Node and delivers the essential skills that you need to become a Node developer. It takes you through creating complete apps and understanding how to build, deploy, and test your own Node apps. It maps out everything in a comprehensive, easy-to-follow package designed to get you up and running quickly. What you will learn Learn the fundamentals of Node Build apps that respond to user input Master working with servers Learn how to test and debug applications Deploy and update your apps in

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the real world Create responsive asynchronous web applications Who this book is for This book targets anyone looking to launch their own Node applications, switch careers, or freelance as a Node developer. You should have a basic understanding of JavaScript in order to follow this course.

Pro MERN Stack

Create large-scale web applications with code that is extensible and easy to understand using React Hooks Key Features Explore effective strategies for migrating your state management from Redux and MobX to React Hooks Integrate Hooks with React features such as Context and Suspense to add advanced functionality to your web apps Create complex applications by combining multiple hooks Book Description React Hooks revolutionize how you manage state and effects in your web applications. They enable you to build simple and concise React.js applications, along with helping you avoid using wrapper components in your applications, making it easy to refactor code. This React book starts by introducing you to React Hooks. You will then get to grips with building a complex UI in React while keeping the code simple and extensible. Next, you will quickly move on to building your first applications with React Hooks. In the next few chapters, the book delves into various Hooks, including the State and Effect Hooks. After covering State Hooks and understanding how to use them, you will focus on the capabilities of Effect Hooks for adding advanced functionality to React apps. You will later explore the Suspense and Context APIs and how they can be used with Hooks. Toward the concluding chapters, you will learn how to integrate Redux and MobX with React Hooks. Finally, the book will help you develop the skill of migrating your existing React class components, and Redux and MobX web applications to Hooks. By the end of this book, you will be well-versed in building your own custom Hooks and effectively refactoring your React applications. What you will learn Understand the fundamentals of React Hooks and how they modernize state management in React apps Build your own custom Hooks and learn how to test them Use community Hooks for implementing responsive design and more Learn the limitations of Hooks and what you should and shouldn't use them for Get to grips with implementing React context using Hooks Refactor your React-based web application, replacing existing React class components with Hooks Use state management solutions such as Redux and MobX with React Hooks Who this book is for This book is for React developers who want to learn how to build applications with Hooks. Developers who are looking to migrate to React for its advanced feature set and capabilities will also find the book useful.

Full Stack JavaScript

Assemble the complete stack required to build a modern web app using MongoDB, Express, React, and Node. This book also covers many other complementary tools: React Router, GraphQL, React-Bootstrap, Babel, and Webpack. This new edition will use the latest version of React (React 16) and the latest React Router (React Router 4), which has a significantly different approach to routing compared to React Router 2 which was used in the first edition of the book. Though the primary focus of Pro MERN Stack is to equip you with all that is required to build a full-fledged web application, a large portion of the book will be devoted to React 16. The popular MEAN (MongoDB, Express, AngularJS, Node) stack introduced Single

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Page Apps (SPAs) and front-end Model-View-Controller (MVC) as new and efficient paradigms. Facebook's React is a technology that competes indirectly with AngularJS. It is not a full-fledged MVC framework. It is a JavaScript library for building user interfaces (in some sense the View part). Yet, it is possible to build a web app by replacing AngularJS with React - hence the term MERN stack. You will: Discover the features of React 16 to get the maximum out of this library Gain the basics of MongoDB, Express, and Node to build a web app Work with other libraries complementary to React, including React-Bootstrap, React Router, and GraphQL Use tools such as Babel and Webpack required to build JavaScript-based SPAs Tie all the components together to build a complete web app.

MongoDB: The Definitive Guide

JavaScript is the little scripting language that could. Once used chiefly to add interactivity to web browser windows, JavaScript is now a primary building block of powerful and robust applications. In this practical book, new and experienced JavaScript developers will learn how to use this language to create APIs as well as web, mobile, and desktop applications. Author and engineering leader Adam D. Scott covers technologies such as Node.js, GraphQL, React, React Native, and Electron. Ideal for developers who want to build full stack applications and ambitious web development beginners looking to bootstrap a startup, this book shows you how to create a single CRUD-style application that will work across several platforms. Explore GraphQL's simple process for querying data Learn about shared authentication for APIs, web apps, and native applications Build performant web applications with React and Styled Components Use React Native to write cross-platform applications for iOS and Android that compile to native code Learn how to write desktop applications with Electron

Fullstack D3 and Data Visualization

Build real-time responsive web apps using React and Bootstrap About This Book Showcase the power of React-Bootstrap through real-world examples Explore the benefits of integrating React with various frameworks and APIs See the benefits of using the latest frameworks to make your web development experience enchanting Who This Book Is For This book is for anybody who is interested in modern web development and has intermediate knowledge of HTML, CSS, and JavaScript. Basic knowledge of any JavaScript MVC framework would also be helpful. What You Will Learn See how to integrate Bootstrap with React Explore the Redux architecture and understand its benefits Build a custom responsive theme with React-Bootstrap components Easily interact with DOM on your web browser Appreciate the advantages of using JSX Get acquainted with the various routing methods in React Integrate external APIs into React In Detail Bootstrap is one of the most popular front-end frameworks, and integrating it with React allows web developers to write much cleaner code. This book will help you gain a thorough understanding of the Bootstrap framework and show you how to build impressive web apps. In this book, you will get an overview of the features of Bootstrap and ReactJS, along with the integration of React-Bootstrap components with ReactJS. You will understand the benefits of using JSX and the Redux architecture. The server-side rendering of React will also be shown. All the concepts are explained by developing real-world examples. By the end of this book, you will be equipped to

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create responsive web applications using Bootstrap style and React-Bootstrap components with ReactJS, and will have an insight into the best practices. Style and approach The mission is to help you make a live and fully-responsive web application using React-Bootstrap with hands-on examples and step-by-step instructions. This book is linear as well as progressive, so every chapter builds upon the knowledge gained in the last.

Full Stack AngularJS for Java Developers

If you want to learn how to build efficient React applications, this is your book. Ideal for web developers and software engineers who understand how JavaScript, CSS, and HTML work in the browser, this updated edition provides best practices and patterns for writing modern React code. No prior knowledge of React or functional JavaScript is necessary. With their learning road map, authors Alex Banks and Eve Porcello show you how to create UIs that can deftly display changes without page reloads on large-scale, data-driven websites. You'll also discover how to work with functional programming and the latest ECMAScript features. Once you learn how to build React components with this hands-on guide, you'll understand just how useful React can be in your organization. Understand key functional programming concepts with JavaScriptLook under the hood to learn how React runs in the browserCreate application presentation layers with React componentsManage data and reduce the time you spend debugging applicationsIncorporate React Hooks to manage state and fetch dataUse a routing solution for single-page application featuresLearn how to structure React applications with servers in mind

Node.js Web Development

Solve all your Spring 5 problems using complete and real-world code examples. When you start a new project, you'll be able to copy the code and configuration files from this book, and then modify them for your needs. This can save you a great deal of work over creating a project from scratch. The recipes in Spring 5 Recipes cover Spring fundamentals such as Spring IoC container, Spring AOP/ AspectJ, and more. Other recipes include Spring enterprise solutions for topics such as Spring Java EE integration, Spring Integration, Spring Batch, Spring Remoting, messaging, transactions, and working with big data and the cloud using Hadoop and MongoDB. Finally, Spring web recipes cover Spring MVC, other dynamic scripting, integration with the popular Grails Framework (and Groovy), REST/web services, and more. You'll also see recipes on new topics such as Spring Framework 5, reactive Spring, Spring 5 microservices, the functional web framework and much more. This book builds upon the best-selling success of the previous editions and focuses on the latest Spring Framework features for building enterprise Java applications. What You'll Learn Get re-usable code recipes and snippets for core Spring, annotations and other development tools Access Spring MVC for web development Work with Spring REST and microservices for web services development and integration into your enterprise Java applications Use Spring Batch, NoSQL and big data for building and integrating various cloud computing services and resources Integrate Java Enterprise Edition and other Java APIs for use in Spring Use Grails code and much more Who This Book Is For Experienced Java and Spring programmers.

Node.js: Related Tools & Skills

This text draws on research to develop and integrate a framework to help students understand factors that surround a firm's performance and the central role that business models play in the face of the Internet.

Full-Stack React Projects

Build beautiful data visualizations with D3 The Fullstack D3 book is the complete guide to D3. With dozens of code examples showing each step, you can gain new insights into your data by creating visualizations. Learn how to quickly turn data into insights with D3 We have the data. But it needs to be understood by humans. The best way to convert this data into an understandable format is to mold it into a data visualization. And D3 is the best tool for job if you need to create custom data visualizations. With Fullstack D3 and Data Visualization you and your team will be able to share key insights, uncover problems before they start, and impress your boss by creating gorgeous visualizations. What's Inside Chapter 0: Introduction When would you want to use D3.js? There is a spectrum of libraries to create charts on the web: on one end, you have easy-to-use, basic libraries that will create a standard chart type. Chapter 1: Making your first chart In this chapter we make a line chart. Line charts are a great starting place because of their popularity, but also because of their simplicity. Chapter 2: Making a scatterplot When looking at the relationship between two metrics, a scatterplot is a good choice. In this chapter we show how to create a scatterplot. Chapter 3: Making a bar chart In this chapter we cover how to create a histogram, which is a bar chart that shows the distribution of one metric, with the metric values on the x axis and the frequency of values on the y axis. Chapter 4: Animations and Transitions When we update our charts, we can animate elements from their old to their new positions. These animations can be visually exciting, but more importantly, they have functional benefits. Chapter 5: Interactions The biggest advantage of creating charts with JavaScript is the ability to respond to user input. Chapter 6: Making a map Maps are also uniquely good at answering geography-based questions. In this chapter, we'll build a map and learn how to plot values within a location. Chapter 7: Data Visualization Basics Now that we're comfortable with how to create a chart, we should zoom out a bit and talk about what chart to create. Chapter 8: Common Charts In this chapter, we talk about common chart types and when to use them. Chapter 9: Dashboard Design A dashboard is any web interface that makes sense out of dynamic data, and in this chapter we learn how to make one. Chapter 10: Advanced Visualization: Marginal Histogram First, we'll focus on enhancing a chart we've already made: our scatter plot. This chart will have multiple goals, all exploring the daily temperature ranges in our weather dataset. Chapter 11: Advanced Visualization: Radial Weather Chart We talked about radar charts in Chapter 10. For this project, we'll build a more complex radar chart. Chapter 12: Advanced Visualization: Animated Sankey Diagram In this project, we'll be simulating real data and creating an animated diagram to engage our viewers. Chapter 13: D3 and React What's the best way to draw a chart within React? It turns out that there is a fair bit of overlap in functionality between a React and D3 - we'll discuss how we can create blazing fast charts using the two together. Chapter 14: D3 and Angular In this chapter we show how to create optimized SVG charts using D3 and Angular.

Pro MEAN Stack Development

Write free, open-source, cross-platform, dynamic JavaScript applications that can run anywhere using the MEAN stack - MongoDB, ExpressJS, AngularJS, and Node.js. With this book Mac developers will get the tools needed to set up, write code once, and be able to deploy code on any device. You will be able to cut development time by using one stack to serve all your development needs. Pro MEAN Stack Development enables you to quickly learn everything needed to work effectively with MEAN, from setting up your toolstack to rolling out your free servers, and deploying on any device. You will also learn to build scripts with Grunt and Gulp, Webpack, and Vagrant and how to deploy to the web and mobile using Phonegap. Harness JavaScript to create dynamic and easily-maintainable applications fast and 100% free. Master the MEAN stack with this book today. What You Will Learn Utilize JavaScript for the entire development cycle from front end to back end, database and deployment. Learn to write responsive code that can be deployed on any device. Become a well-rounded developer and be able to understand the entire development cycle. Learn to utilize free open source and cloud services to deploy production-grade code. Who This Book Is For Front or back end Mac developers familiar with JavaScript and interested in utilizing the MEAN stack to deploy successful apps on all devices.

Modern PHP

Discover how to write manuscripts in Markdown and translate them with Pandoc into different output formats. You'll use Markdown to annotate text formatting information with a strong focus on semantic information: you can annotate your text with information about where chapters and sections start, but not how chapter and heading captions should be formatted. As a result, you'll decouple the structure of a text from how it is visualized and make it easier for you to produce different kinds of output. The same text can easily be formatted as HTML, PDF, or Word documents, with various visual styles, by tools that understand the markup annotations. Finally, you'll learn to use Pandoc, a tool for translating between different markup languages, such as LaTeX, HTML, and Markdown. This book will not describe all the functionality that Pandoc provides, but will teach you how to translate Markdown documents, how to customize your documents using templates, and how to extend Pandoc's functionality using filters. If that is something you are interested in, Introducing Markdown and Pandoc will get you started. With this set of skills you'll be able to write more efficiently without worrying about needless formatting and other distractions. What You Will Learn Why and how to use Markdown and Pandoc Write Markdown Use extensions available in Pandoc and Markdown Write math and code blocks Use templates and produce documents Who This Book Is For Programmers and problem solvers looking for technical documentation solutions.

The Full Stack Developer

Get introduced to full stack enterprise development. Whether you are new to AngularJS and Spring RESTful web services, or you are a seasoned expert, you will be able to build a full-featured web application from scratch using AngularJS and

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Spring RESTful web services. Full stack web development is in demand because you can explore the best of different tools and frameworks and yet make your apps solid and reliable in design, scalability, robustness, and security. This book assists you in creating your own full stack development environment that includes the powerful and revamped AngularJS, and Spring REST. The architecture of modern applications is covered to prevent the development of isolated desktop and mobile applications. By the time you reach the end of this book you will have built a full-featured dynamic app. You will start your journey by setting up a Spring Boot development environment and creating your RESTful services to perform CRUD operations. Then you will migrate the front-end tools—AngularJS and Bootstrap—into your Spring Boot application to consume RESTful services. You will secure your REST API using Spring Security and consume your secured REST API using AngularJS. What You'll Learn Build a REST application with Spring Boot Expose CRUD operations using RESTful endpoints Create a single page application by integrating Angular JS and Bootstrap in Spring Boot Secure REST APIs using Spring Security Consume secured RESTful Services using Angular JS Build a REST client using a REST template to consume RESTful services Test RESTful services using the Spring MVC Test Framework Who This Book Is For Web application developers with previous Java programming experience who want to create enterprise-grade, scalable Java apps using powerful front tools such as AngularJS and Bootstrap along with popular back-end frameworks such as Spring Boot

Eloquent JavaScript

Advancements in microprocessor architecture, interconnection technology, and software development have fueled rapid growth in parallel and distributed computing. However, this development is only of practical benefit if it is accompanied by progress in the design, analysis and programming of parallel algorithms. This concise textbook provides, in one place, three mainstream parallelization approaches, Open MPP, MPI and OpenCL, for multicore computers, interconnected computers and graphical processing units. An overview of practical parallel computing and principles will enable the reader to design efficient parallel programs for solving various computational problems on state-of-the-art personal computers and computing clusters. Topics covered range from parallel algorithms, programming tools, OpenMP, MPI and OpenCL, followed by experimental measurements of parallel programs' run-times, and by engineering analysis of obtained results for improved parallel execution performances. Many examples and exercises support the exposition.

Fullstack React

Enjoy learning the fundamentals of building a Service Layer with Node.js/Express, a Data Layer with MongoDB, and a Presentation Layer with React and React Native. Illustrated with a sample application to learn everything along the way. This book will teach you how to develop JavaScript applications with simple to use, yet powerful JavaScript technologies and host everything in the cloud in an economic and robust way. Learn how to architect, develop, test, secure, deploy and manage a RESTful Web Service in AWS and deploy to Google Play.

Introducing Markdown and Pandoc

Learn how to build dynamic web applications with Express, a key component of the Node/JavaScript development stack. In this hands-on guide, author Ethan Brown teaches you the fundamentals through the development of a fictional application that exposes a public website and a RESTful API. You'll also learn web architecture best practices to help you build single-page, multi-page, and hybrid web apps with Express. Express strikes a balance between a robust framework and no framework at all, allowing you a free hand in your architecture choices. With this book, frontend and backend engineers familiar with JavaScript will discover new ways of looking at web development. Create webpage templating system for rendering dynamic data Dive into request and response objects, middleware, and URL routing Simulate a production environment for testing and development Focus on persistence with document databases, particularly MongoDB Make your resources available to other programs with RESTful APIs Build secure apps with authentication, authorization, and HTTPS Integrate with social media, geolocation, and other third-party services Implement a plan for launching and maintaining your app Learn critical debugging skills This book covers Express 4.0.

Mastering Full Stack React Web Development

Learn how to build a wide range of scalable real-world web applications using a professional development toolkit. If you already know the basics of Node.js, now is the time to discover how to bring it to production level by leveraging its vast ecosystem of packages. With this book, you'll work with a varied collection of standards and frameworks and see how all those pieces fit together. Practical Node.js takes you from installing all the necessary modules to writing full-stack web applications. You'll harness the power of the Express.js and Hapi frameworks, the MongoDB database with Mongoskin and Mongoose. You'll also work with Pug and Handlebars template engines, Stylus and LESS CSS languages, OAuth and Everyauth libraries, and the Socket.IO and Derby libraries, and everything in between. This exciting second edition is fully updated for ES6/ES2015 and also covers how to deploy to Heroku and AWS, daemonize apps, and write REST APIs. You'll build full-stack real-world Node.js apps from scratch, and also discover how to write your own Node.js modules and publish them on NPM. Fully supported by a continuously updated source code repository on GitHub and with full-color code examples, learn what you can do with Node.js and how far you can take it! What You'll Learn Manipulate data from the mongo console Use the Mongoskin and Mongoose MongoDB libraries Build REST API servers with Express and Hapi Deploy apps to Heroku and AWS Test services with Mocha, Expect and TravisCI Implement a third-party OAuth strategy with Everyauth Web developers who have some familiarity with the basics of Node.js and want to learn how to use it to build apps in a professional environment.

Learn React Hooks

Takes you through creating your own API, building a full real-time web app, securing your Node systems, and practical applications of the latest Async and Await technologies. It maps out everything in a comprehensive, easy-to-follow

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package designed to get you up and running quickly. Key Features Entirely project-based and practical Explains the "why" of Node.js features, not just the "how", providing with a deep understanding and enabling you to easily apply concepts in your own applications Covers the full range of technologies around Node.js - npm, MongoDB, version control with Git, and many more Book Description Advanced Node.js Development is a practical, project-based book that provides you with all you need to progress as a Node.js developer. Node is a ubiquitous technology on the modern web, and an essential part of any web developer's toolkit. If you're looking to create real-world Node applications, or you want to switch careers or launch a side-project to generate some extra income, then you're in the right place. This book was written around a single goal: turning you into a professional Node developer capable of developing, testing, and deploying real-world production applications. There's no better time to dive in. According to the 2018 Stack Overflow Survey, Node is in the top ten for back-end popularity and back-end salary. This book is built from the ground up around the latest version of Node.js (version 9.x.x). You'll be learning all the cutting-edge features available only in the latest software versions. This book delivers advanced skills that you need to become a professional Node developer. Along this journey you'll create your own API, you'll build a full real-time web app and create projects that apply the latest Async and Await technologies. Andrew Mead maps everything out for you in this book so that you can learn how to build powerful Node.js projects in a comprehensive, easy-to-follow package designed to get you up and running quickly. What you will learn Develop, test, and deploy real-world Node.js applications Master Node.js by building practical, working examples Use awesome third-party Node modules such as MongoDB, Mongoose, Socket.io, and Express Create real-time web applications Explore async and await in ES7 Who this book is for This book is for anyone looking to launch their own Node applications, switch careers, or freelance as a Node developer. You should have a basic understanding of JavaScript in order to follow this book. This book follows directly on from Learning Node.js Development, but more advanced readers can benefit from this book without having read the first part.

Modern Full-Stack Development

Unearth the power of GraphQL, React, Apollo, Node, and Express to build a scalable, production ready application Key Features Build full stack applications with modern APIs using GraphQL and Apollo Integrate Apollo into React and build frontend components using GraphQL Implement a self-updating notification pop-up with a unique GraphQL feature called Subscriptions Book Description React, one of the most widely used JavaScript frameworks, allows developers to build fast and scalable front end applications for any use case. GraphQL is the modern way of querying an API. It represents an alternative to REST and is the next evolution in web development. Combining these two revolutionary technologies will give you a future-proof and scalable stack you can start building your business around. This book will guide you in implementing applications by using React, Apollo, Node.js and SQL. We'll focus on solving complex problems with GraphQL, such as abstracting multi-table database architectures and handling image uploads. Our client, and server will be powered by Apollo. Finally we will go ahead and build a complete Graphbook. While building the app, we'll cover the tricky parts of connecting React to the back end, and maintaining and synchronizing state. We'll

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learn all about querying data and authenticating users. We'll write test cases to verify the front end and back end functionality for our application and cover deployment. By the end of the book, you will be proficient in using GraphQL and React for your full-stack development requirements. What you will learn Resolve data from multi-table database and system architectures Build a GraphQL API by implementing models and schemas with Apollo and Sequelize Set up an Apollo Client and build front end components using React Use Mocha to test your full-stack application Write complex React components and share data across them Deploy your application using Docker Who this book is for The book is for web developers who want to enhance their skills and build complete full stack applications using industry standards. Familiarity with JavaScript, React, and GraphQL is expected to get the most from this book.

Learning React

Create real-time server-side applications with this practical, step-by-step guide About This Book Learn about server-side JavaScript with Node.js and Node modules through the most up-to-date book on Node.js web development Understand website development both with and without the Connect/Express web application framework Develop both HTTP server and client applications Who This Book Is For This book is for anybody looking for an alternative to the "P" languages (Perl, PHP, and Python), or anyone looking for a new paradigm of server-side application development. You should have at least a rudimentary understanding of JavaScript and web application development. What You Will Learn Install and use Node.js for both development and deployment Use the Express application framework Configure Bootstrap for mobile-first theming Use data storage engines such as MySQL, SQLITE3, and MongoDB Understand user authentication methods, including OAuth, with third-party services Deploy Node.js to live servers, including microservice development with Docker Perform unit testing with Mocha Perform functional testing of the web application with CasperJS In Detail Node.js is a server-side JavaScript platform using an event driven, non-blocking I/O model allowing users to build fast and scalable data-intensive applications running in real time. Node.js Web Development shows JavaScript is not just for browser-side applications. It can be used for server-side web application development, real-time applications, microservices, and much more. This book gives you an excellent starting point, bringing you straight to the heart of developing web applications with Node.js. You will progress from a rudimentary knowledge of JavaScript and server-side development to being able to create and maintain your own Node.js application. With this book you'll learn how to use the HTTP Server and Client objects, data storage with both SQL and MongoDB databases, real-time applications with Socket.IO, mobile-first theming with Bootstrap, microservice deployment with Docker, authenticating against third-party services using OAuth, and much more. Style and Approach This book is a practical guide for anyone looking to develop striking and robust web applications using Node.js.

Learning React

With Learning JavaScript Design Patterns, you'll learn how to write beautiful, structured, and maintainable JavaScript by applying classical and modern design patterns to the language. If you want to keep your code efficient, more

manageable, and up-to-date with the latest best practices, this book is for you. Explore many popular design patterns, including Modules, Observers, Facades, and Mediators. Learn how modern architectural patterns—such as MVC, MVP, and MVVM—are useful from the perspective of a modern web application developer. This book also walks experienced JavaScript developers through modern module formats, how to namespace code effectively, and other essential topics. Learn the structure of design patterns and how they are written Understand different pattern categories, including creational, structural, and behavioral Walk through more than 20 classical and modern design patterns in JavaScript Use several options for writing modular code—including the Module pattern, Asynchronous Module Definition (AMD), and CommonJS Discover design patterns implemented in the jQuery library Learn popular design patterns for writing maintainable jQuery plugins "This book should be in every JavaScript developer's hands. It's the go-to book on JavaScript patterns that will be read and referenced many times in the future."—Andrée Hansson, Lead Front-End Developer, presis!

Spring 5 Recipes

A practical, project-based guide to full-stack JavaScript web development combining the power of React with industry-tested server-side technologies Key Features Build your career as a full-stack developer with this practical guide Understand how the different aspects of a MERN application come together through a series of practical projects Master the MERN stack by building robust social media, E-commerce store, and web-based VR game apps Book Description Facebook's React combined with industry-tested, server-side technologies, such as Node, Express, and MongoDB, enables you to develop and deploy robust real-world full-stack web apps. This updated second edition focuses on the latest versions and conventions of the technologies in this stack, along with their new features such as Hooks in React and `async/await` in JavaScript. The book also explores advanced topics such as implementing real-time bidding, a web-based classroom app, and data visualization in an expense tracking app. Full-Stack React Projects will take you through the process of preparing the development environment for MERN stack-based web development, creating a basic skeleton app, and extending it to build six different web apps. You'll build apps for social media, classrooms, media streaming, online marketplaces with real-time bidding, and web-based games with virtual reality features. Throughout the book, you'll learn how MERN stack web development works, extend its capabilities for complex features, and gain actionable insights into creating MERN-based apps, along with exploring industry best practices to meet the ever-increasing demands of the real world. By the end of this React book, you'll be able to build production-ready MERN full-stack apps using advanced tools and techniques in modern web development. What you will learn Extend a basic MERN-based application to build a variety of applications Add real-time communication capabilities with Socket.IO Implement data visualization features for React applications using Victory Develop media streaming applications using MongoDB GridFS Improve SEO for your MERN apps by implementing server-side rendering with data Implement user authentication and authorization using JSON web tokens Set up and use React 360 to develop user interfaces with VR capabilities Make your MERN stack applications reliable and scalable with industry best practices Who this book is for This is one of the most useful web development books for JavaScript developers who may have worked with React but have

minimal experience in full-stack development with Node, Express, and MongoDB.

Learning Web Development with React and Bootstrap

PHP is experiencing a renaissance, though it may be difficult to tell with all of the outdated PHP tutorials online. With this practical guide, you'll learn how PHP has become a full-featured, mature language with object-orientation, namespaces, and a growing collection of reusable component libraries. Author Josh Lockhart—creator of PHP The Right Way, a popular initiative to encourage PHP best practices—reveals these new language features in action. You'll learn best practices for application architecture and planning, databases, security, testing, debugging, and deployment. If you have a basic understanding of PHP and want to bolster your skills, this is your book. Learn modern PHP features, such as namespaces, traits, generators, and closures Discover how to find, use, and create PHP components Follow best practices for application security, working with databases, errors and exceptions, and more Learn tools and techniques for deploying, tuning, testing, and profiling your PHP applications Explore Facebook's HVVM and Hack language implementations—and how they affect modern PHP Build a local development environment that closely matches your production server

Beginning Node.js, Express & MongoDB Development

React is a JavaScript library developed for one main reason—to build reusable UI components that present ever-changing data. The React philosophy is to focus solely on the user interface. In model-view-controller (MVC) terminology, React is the view. Because it has to work with models and other libraries, it's designed to play nicely with pretty much any other framework, router, style, and model library. And it's well-supported—React emerged from Instagram and is now used by Facebook, Asana, Khan Academy, and Atom among many more. React Quickly is for anyone who wants to learn React.js fast. This hands-on book teaches needed concepts by using lots of examples, tutorials, and a large main project that gets built throughout. It starts with the basics, including how React fits into applications, JSX, and handling states, and events. Next, it explores core topics like components, forms, and data. Finally, the book dives into React integration topics, like unit testing and isomorphic JavaScript with Express.js, and Gulp. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

Node.js, MongoDB, React, React Native Full-Stack Fundamentals and Beyond

Explore what React, Node, TypeScript, Webpack, and Docker have to offer individually, and how they all fit together in modern app development. React is one of the most popular web development tools available today, and Node.js is extremely popular for server-side development. The fact that both utilize JavaScript is a big selling point, but as developers use the language more, they begin to recognize the shortcomings, and that's where TypeScript comes in and why it's gaining in popularity quickly. Add Webpack and Docker to the mix, and you've got a potent full development stack on which to build applications. You'll begin by

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building a solid foundation of knowledge and quickly expand it by constructing two different real-world apps. These aren't just simple, contrived examples but real apps that you can choose to install on your servers and use for real. By the end, you will have a solid grasp of building apps with React, Node.js, and TypeScript and a good grasp on how Webpack can be used to optimize and organize your code for deployment. You'll also understand how Docker can be used to run the apps you build in a clear and well-defined way, all of which will be able to springboard you into creating more advanced apps on your own. What You'll Learn Get a project started and logically structure it Construct a user interface with React and Material-UI Use WebSockets for real-time communication between client and server Build a REST API with Node and Express as another approach to client-server communication Package the app with Webpack for optimized delivery Take a completed app and wrap it up with Docker for easy distribution Review a host of other ancillary topics including NPM, Semantic versioning, Babel, NoSQL, and more Who This Book Is For Web developers with basic knowledge of HTML, JavaScript, CSS, and CLI tools who are interested in and in all aspects of application development, and using TypeScript instead of straight JavaScript.

Pro React 16

Assemble the complete stack required to build a modern web app using React: MongoDB (a NoSQL database) and Express (a framework for web application servers), which runs on Node (JavaScript on the server side), complement React very nicely. This book will also cover many other tools that go into building a complete web application: React Router, React-Bootstrap, Redux, Babel, and webpack. Though the primary focus of Pro MERN Stack is to equip you with all that is required to build a full-fledged web application, a large portion of the book will be devoted to React. The popular MEAN (MongoDB, Express, AngularJS, Node) stack introduced Single Page Apps (SPAs) and front-end Model-View-Controller (MVC) as new and efficient paradigms. But it has its shortcomings such as lack of support for SEO friendly server-side rendering and being too prescriptive by being a framework. Facebook's React is a technology that competes indirectly with AngularJS. It is not a full-fledged MVC framework. It is a JavaScript library for building user interfaces (in some sense the View part). Yet, it is possible to build a web app by replacing AngularJS with React – hence the term MERN stack. What You Will Learn Discover the details of React, the React Way, and how to get the maximum out of this library See the basics of MongoDB, Express, and Node, enough to build a web app Work with other tools complementary to React, including React-Bootstrap and React Router Use the tools required to build JavaScript based SPAs Tie all the components together to build a complete web app. Who This Book Is For Developers and architects who have prior experience in any web app stack other than the MERN stack will find the book useful to learn about this modern stack. Prior knowledge of JavaScript, HTML, and CSS is required.

Web Development with Node and Express

Manage the huMONGOus amount of data collected through your web application with MongoDB. This authoritative introduction—written by a core contributor to the project—shows you the many advantages of using document-oriented databases, and demonstrates how this reliable, high-performance system allows for almost

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infinite horizontal scalability. This updated second edition provides guidance for database developers, advanced configuration for system administrators, and an overview of the concepts and use cases for other people on your project. Ideal for NoSQL newcomers and experienced MongoDB users alike, this guide provides numerous real-world schema design examples. Get started with MongoDB core concepts and vocabulary Perform basic write operations at different levels of safety and speed Create complex queries, with options for limiting, skipping, and sorting results Design an application that works well with MongoDB Aggregate data, including counting, finding distinct values, grouping documents, and using MapReduce Gather and interpret statistics about your collections and databases Set up replica sets and automatic failover in MongoDB Use sharding to scale horizontally, and learn how it impacts applications Delve into monitoring, security and authentication, backup/restore, and other administrative tasks

Practical Node.js

Use the enormously popular React framework to build dynamic JavaScript applications that take advantage of the capabilities of modern browsers and devices. You will learn how React brings the power of strong architecture and responsive data to the client, providing the foundation for complex and rich user interfaces. Best-selling author Adam Freeman explains how to get the most from React. He begins by describing the React architecture and the benefits it offers and then shows you how to use React and its associated tools and libraries in your projects, starting from the nuts and bolts and building up to the most advanced and sophisticated features, going in-depth to give you the knowledge you need. Each topic is presented clearly and concisely. Chapters include common problems and how to avoid them. What You'll Learn Gain a solid understanding of the React design Create rich and dynamic web app clients using React Create data stores using Redux Consume data using REST and GraphQL Test your React projects Who This Book Is For JavaScript developers who want to use React to create dynamic client-side applications

Getting Mean with Mongo, Express, Angular, and Node

Learn agile JavaScript web development using the latest cutting-edge front-end and back-end technologies including Node.js, MongoDB, Backbone.js, Parse.com, Heroku, and Microsoft Azure. Using a key project example of a message board app, you will learn the foundations of a typical web application: fetching data, displaying it, and submitting new data. Practical examples of the app build are provided with multiple technologies and all code examples are in full color. This book will save you many hours by providing a hand-picked and tested collection of quick start guides that will enable you to spend less time learning and more time building your own applications. Completely updated for this second edition, Full Stack JavaScript uses current versions of all technologies, including ES6/ES2015 and the latest versions of Node and npm. Prototype fast and ship code that matters! What You'll Learn Use a collection of quick start guides, tutorials, and suggestions, to enhance several development apps Review virtually all setup and deployment step-by-step. Work with Chat web/mobile applications Put front-end and back-end components together and deploy them to production environment Who This Book Is For Programmers who want to learn more about effective JavaScript coding

Pro MERN Stack

With modern tools, it is possible to create a production grade, full-stack application using HTML, CSS, and JavaScript alone. The combination of MongoDB, Express, AngularJS, and Node.js has become so popular that it has earned the title MEAN stack -- the subject of this book. This book explores the MEAN stack in detail. We will begin by covering Node.js, as it will lay the groundwork for all of our server-side work. You will learn how to get Node running on your local machine as well as download modules using npm. The key aspects of the Node.js programming model will also be covered. From there, we will move on to MongoDB, where you'll learn how to interact with Mongo from a Node application. You will also learn how to create, retrieve, update, and delete data from a Mongo store. After you have a solid grasp on Node and Mongo, the book will move on to the Express web server. We'll cover the basics of Express applications via topics like routes and middleware. Building on previous chapters, we will cover the integration of Node, Mongo, and Express. Our coverage of the MEAN stack will wrap up with several chapters on AngularJS. These chapters will cover Angular fundamentals like data binding, directives, controllers, routing, and services. In an effort to explore competing technologies, a slight introduction to Ember.js will also be provided. Full stack JavaScript is not fully encompassed by the MEAN stack. There is an entire ecosystem of JavaScript tools to learn about, and this book will introduce a few of them. We will cover task runners Gulp.js and Grunt.js which are extremely useful for automating mundane, repetitive tasks. We'll also cover JSHint, a linting tool used to improve code quality. Linting tools analyze source code and report potential issues - a feature that is especially useful in non-compiled languages like JavaScript.

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