



FULL STACK JAVASCRIPT DEVELOPMENT WITH MEAN

BY ADAM BRETZ
& COLIN J. IHRIG



MONGODB, EXPRESS, ANGULARJS, AND NODE.JS

Full Stack Javascript Development With Mean

Jiyuan Zhang



Full Stack Javascript Development With Mean:

Full Stack JavaScript Development with MEAN Adam Bretz, Colin J. Ihrig, 2014 Full Stack JavaScript Development With MEAN Colin J Ihrig, Adam Bretz, 2014-12-24 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 potentials issues a feature that is especially useful in non compiled languages like JavaScript MEAN Stack Full-Stack Development: An In-Depth Guide to MongoDB, Express.js, Angular, and Node.js. Adam Jones, 2025-01-09 Immerse yourself in the world of MEAN stack development with the in depth guide MEAN Stack Full Stack Development An In Depth Guide to MongoDB Express js Angular and Node js Whether you re a software developer web developer computer science student or a professional aiming to hone your full stack skills this book offers invaluable insights From setting up your development environment to deploying robust scalable applications you ll explore each component of the MEAN stack MongoDB Express js Angular and Node js Harness the power of MongoDB for efficient data management leverage Express js for server side logic create dynamic and responsive user interfaces with Angular and execute JavaScript on the server with Node js Featuring detailed explanations practical examples and expert insights into advanced topics you ll master building secure high performing web applications Additionally this book covers authentication and authorization RESTful APIs deployment strategies and the latest MEAN stack advanced practices and performance optimization techniques By the end you ll be equipped with the knowledge tools and best practices to confidently tackle any MEAN stack project Embark on your journey to becoming a proficient MEAN stack developer with this essential resource **Innovation and Research** Miguel Botto-Tobar, Marcelo Zambrano Vizueté, Angela

Díaz Cadena,2020-11-21 This book presents the proceedings of the 1st International Congress on Innovation and Research A Driving Force for Socio Econo Technological Development CI3 2020 CI3 was held on June 18 19 2020 It was organized by the Instituto Tecnol gico Superior Rumi ahui and GDEON in co organization with Higher Institutes Libertad Bolivariano Vida Nueva Esp ritu Santo Sudamericano Loja Central T cnico and sponsored by the Universidad Nacional Mayor de San Marcos Per the Federal University of Goi s Brazil and HOSTOS Community University of New York USA CI3 aims to promote the development of research activities in Higher Education Institutions and the relationship between the productive and scientific sector of Ecuador supporting the fulfilment of the National Development Plan Toda una vida 2017 2021 **Web**

Application Development with MEAN Amos Q. Haviv,Adrian Mejia,Robert Onodi,2016-10-28 Unlock the power of the MEAN stack by creating attractive and real world projects About This Book Learn about the different components that comprise a MEAN application to construct a fully functional MEAN application using the best third party modules A step by step guide to developing the MEAN stack components from scratch to achieve maximum flexibility when building an e commerce application Build optimum end to end web applications using the MEAN stack Who This Book Is For This learning path is for web developers who are experienced in developing applications using JavaScript This course is for developers who are interested in learning how to build modern and multiple web applications using MongoDB Express AngularJS and Node js What You Will Learn Build modern end to end web applications by employing the full stack web development solution of MEAN Connect your Express application to MongoDB and use a Mongoose model and build a complex application from start to finish in MongoDB Employ AngularJS to build responsive UI components Implement multiple authentication strategies such as OAuth JsonWebToken and Sessions Enhance your website s usability with social logins such as Facebook Twitter and Google Secure your app by creating SSL certificates and run payment platforms in a live environment Implement a chat application from scratch using Socket IO Create distributed applications and use the power of server side rendering in your applications Extend a project with a real time bidding system using WebSockets In Detail The MEAN stack is a collection of the most popular modern tools for web development This course will help you to build a custom e commerce app along with several other applications You will progress to creating several applications with MEAN The first module in this course will provide you with the skills you need to successfully create maintain and test a MEAN application Starting with MEAN core frameworks this course will explain each framework key concepts of MongoDB Express AngularJS and Node js We will walk through the different tools and frameworks that will help expedite your daily development cycles After this the next module will show you how to create your own e commerce application using the MEAN stack It takes you step by step through the parallel process of learning and building to develop a production ready high quality e commerce site from scratch It also shows you how to manage user authentication and authorization check multiple payment platforms add a product search and navigation feature deploy a production ready e commerce site and finally add your own high quality feature to the site The

final step in this course will enable you to build a better foundation for your AngularJS apps You ll learn how to build complex real life applications with the MEAN stack and a few more advanced projects You will become familiar with WebSockets build real time web applications create auto destructing entities and see how to work with monetary data in Mongo You will also find out how to a build real time e commerce application This learning path combines some of the best that Packt has to offer in one complete curated package It includes content from the following Packt products MEAN Web Development by Amos Haviv Building an E Commerce Application with MEAN by Adrian Mejia MEAN Blueprints by Robert Onodi Style and approach This course will begin with the introduction to MEAN gradually progressing with building applications in each framework Each transition is well explained and each chapter begins with the required background knowledge [New Frontiers of Full-Stack Development](#) Pasquale De Marco,2025-07-19 In the ever evolving world of web development full stack developers are in high demand They possess the expertise to create and maintain dynamic engaging and secure web applications bridging the gap between front end and back end programming This comprehensive guide to full stack development provides a deep dive into the essential concepts technologies and best practices needed to excel in this field Whether you are an aspiring developer looking to master the art of full stack development or an experienced developer seeking to expand your skillset this book is your ultimate resource Throughout this book you will embark on a journey to understand the fundamental principles of front end development including HTML CSS JavaScript and popular JavaScript frameworks You will also delve into the intricacies of back end development covering server side programming languages frameworks and database management systems Furthermore you will explore the art of designing user friendly and engaging user interfaces implementing robust security measures to protect web applications from vulnerabilities and optimizing application performance for speed and efficiency This book is more than just a collection of technical concepts and coding techniques It is a practical guide that emphasizes hands on learning and real world application With numerous code examples exercises and case studies you will gain the skills and confidence to create sophisticated web applications that meet the demands of the modern digital landscape By the end of this book you will be equipped with the knowledge and expertise to build dynamic scalable and secure web applications propelling your career as a full stack developer to new heights If you like this book write a review [The Complete JavaScript Developer](#) ,2018 Learn all of the different aspects of full stack JavaScript development using the MEAN stack In this primer course we will be introducing each section of the stack and in 16 videos we show you how to build an application using the latest and greatest technologies out there at the moment Throughout this course we ll show you how to use each of these technologies and how to use them together Build great JavaScript applications using MongoDB Express Angular2 TypeScript and Node js The overall aim of the course is to enable you to confidently build all different types of application using the MEAN stack Resource description page **MEAN Stack ile Yazılım Geliştirme** Özel Sebetci,İbrahim Sarıkaya,2020-01-07 **The Complete JavaScript Developer** ,2017

Learn all of the different aspects of full stack JavaScript development using the MEAN stack We re not talking about any generators or MEAN frameworks here we re talking about a full understanding of MongoDB Express AngularJS and Node js Throughout this course we ll show you how to use each of these technologies and how to use them together Build Great JavaScript Applications using MongoDB Express AngularJS 1 x and Node js The overall aim of the course is to enable to you confidently build all different types of application using the MEAN stack To do this the course is divided into four sections each section focusing on a different goal The four sections all work together building a full application with an overall outcome of showing how to architect and build complete MEAN applications Resource description page [MEAN Web Development](#) Amos Q. Haviv,2016-11-30 Develop your real time MEAN application efficiently using a combination of MongoDB Express Angular and Node About This Book Construct a fully functional MEAN application by using its components along with the best third party modules Harness the power of the JavaScript ecosystem to effectively run build and test your MEAN application Gain a deep practical understanding of real time web application development through real world examples Who This Book Is For If you are a JavaScript developer who is interested in building modern web applications using MongoDB Express Angular 2 and Node 5 0 then this book is for you You only need knowledge of JavaScript development What You Will Learn Use MongoDB to store and retrieve your application s data Connect your Express application to MongoDB and use the Mongoose module Manage your users authentication and offer them diverse login options using Passport Structure and use an Angular 2 application in your MEAN project Use Socket io to create real time communication between your client and server Test your application s Express and Angular 2 entities In Detail The MEAN stack is a collection of the most popular modern tools for web development that helps you build fast robust and maintainable web applications Starting with the MEAN core frameworks this pragmatic guide will explain the key concepts of each framework how to set them up properly and how to use popular modules to connect it all together By following the real world examples shown in this tutorial you will scaffold your MEAN application architecture add an authentication layer and develop an MVC structure to support your project development You will learn the best practices of maintaining clear and simple code and will see how to avoid common pitfalls Finally you will walk through the different tools and frameworks that will help expedite your daily development cycles Watch how your application development grows by learning from the only guide that is solely orientated towards building a full end to end real time application using the MEAN stack Style and approach This comprehensive guide covers every part of the MEAN stack and focuses on the gestalt power of the apps they can create through practical real world examples *The Full Stack Development* Mr. G. Rajasekhara Reddy, Mrs. S. Senthamaraiselvi, Mr. S. Vivekanandan, Dr. P. Chellammal,2025-03-28 The Full Stack Development is a comprehensive guide for aspiring web developers covering both front end and back end technologies It explores HTML CSS JavaScript databases APIs and server side frameworks Ideal for beginners and professionals this book offers practical examples project based learning and insights

into modern development tools and best practices Mastering the Mern Stack: From Zero to Full-Stack Hero Dr. Arthy Rajakumar, Mrs. Deepa Priya V, Mrs. Priyadarshini P, Dr. Muthuselvi R, 2025-02-07 Mastering the MERN Stack From Zero to Full Stack Hero that takes readers from the basics to advanced concepts of full stack web development using MongoDB Express js React and Node js This everything from setting up a development environment to building and deploying dynamic web applications With hands on projects best practices and real world examples it equips beginners and experienced developers alike with the skills needed to create scalable and efficient web applications Whether you re new to web development or looking to refine your MERN stack expertise this book is your roadmap to mastering full stack development

Learning Node Shelley Powers, 2016-05-24 Take your web development skills from browser to server with Node and learn how to write fast highly scalable network applications on this JavaScript based platform Updated for the latest Node Long Term Support LTS and Node Current 6 0 releases this hands on edition helps you master Node s core fundamentals and gain experience with several built in and contributed modules Get up to speed on Node s event driven asynchronous I O model for developing data intensive applications that are frequently accessed but computationally simple If you re comfortable working with JavaScript this book provides many programming and deployment examples to help you take advantage of server side development with Node Explore the frameworks and functionality for full stack Node development Dive into Node s module system and package management support Test your application or module code on the fly with Node s REPL console Use core Node modules to build web applications and an HTTP server Learn Node s support for networks security and sockets Access operating system functionality with child processes Learn tools and techniques for Node development and production Use Node in microcontrollers microcomputers and the Internet of Things **The Modern**

JavaScript Collection Aurelio De Rosa, Craig Buckler, Nilson Jacques, Byron Houwens, Jeff Mott, Graham Cox, Ludovico Fischer, James Wright, James Kolce, Moritz Kroger, Ivan Curic, Samier Saeed, M. David Green, Michaela Lehr, Michael Wanyoike, Darren Jones, Mark Brown, 2018-06-01 There s no doubt that the JavaScript ecosystem changes fast Not only are new tools and frameworks introduced and developed at a rapid rate the language itself has undergone big changes with the introduction of ES2015 aka ES6 and further revisions Understandably many articles have been written complaining about how difficult it is to learn modern JavaScript development these days We re aiming to minimize that confusion with this set of books on modern JavaScript This collection contains Practical ES6 is a collection of articles introducing many of the powerful new JavaScript language features that were introduced in ECMAScript 2015 as well as features introduced in ECMAScript 2016 and 2017 It also takes a look at the features planned for ECMAScript 2018 in this rapidly evolving language JavaScript Best Practice presents articles discussing modern JavaScript best practice enabling you to write more powerful code that is clean performant maintainable and reusable 6 JavaScript Projects presents six complete JavaScript projects each taking advantage of modern JavaScript and its ecosystem You ll learn to build several different apps and along the way you ll pick

up a ton of useful advice tips and techniques Modern JavaScript Tools Skills contains a collection of articles outlining essential tools and skills that every modern JavaScript developer should know This book is for all front end developers who wish to improve their JavaScript skills You ll need to be familiar with HTML and CSS and have a reasonable level of understanding of JavaScript in order to follow the discussion Full Stack Web Development Rheinwerk Publishing, Inc, Philip Ackermann, 2024-09-18 This book is a complete guide to mastering full stack web development from HTML and CSS to JavaScript Node js and PHP Learn to build optimize and deploy dynamic web applications using modern tools and practices Key Features Comprehensive coverage of front end and back end web development Practical examples and real life applications for dynamic websites Detailed exploration of essential tools databases and security for full stack developers Book Description This book offers a comprehensive guide to full stack web development covering everything from core web technologies to advanced topics The early chapters introduce foundational concepts like client server relationships HTML CSS and JavaScript Readers learn how to build static and dynamic web pages gaining a solid grounding in front end development As the book progresses it delves into more advanced areas such as structuring applications databases and server side programming using frameworks like Node js and PHP Practical examples such as building web servers and handling data help readers apply their skills in real world scenarios bridging the gap between theory and practice The later chapters address crucial topics like web security performance optimization and project management Readers are introduced to modern practices like Docker microservices and Agile project management equipping them to handle scalable secure applications By the end readers will have a holistic understanding of how to build secure and deploy full stack applications making this book ideal for both beginners and experienced developers seeking to refine their skills What you will learn Master HTML and CSS for web design Build interactive web pages using JavaScript Implement server side logic with Node js and PHP Optimize websites for accessibility and performance Use databases for data storage Secure and deploy web applications Who this book is for This book is ideal for aspiring web developers students and professionals seeking full stack development skills Readers should have a basic understanding of web technologies It is ideal for those wanting to create dynamic web applications from scratch **Practical ES6** Aurelio De Rosa, Kyle Pennell, Nilson Jacques, Craig Buckler, Byron Houwens, Jeff Mott, Sandeep Panda, Graham Cox, Ludovico Fischer, James Wright, 2018-05-31 There s no doubt that the JavaScript ecosystem changes fast Not only are new tools and frameworks introduced and developed at a rapid rate the language itself has undergone big changes with the introduction of ES2015 aka ES6 Understandably many articles have been written complaining about how difficult it is to learn modern JavaScript development these days We re aiming to minimize that confusion with this set of books on modern JavaScript This book provides an introduction to many of the powerful new JavaScript language features that were introduced in ECMAScript 2015 as well as features introduced in ECMAScript 2016 and 2017 It also takes a look at the features planned for ECMAScript 2018 in this rapidly evolving language It contains New

Keywords let and const by Aurelio de Rosa Using Map Set WeakMap WeakSet by Kyle Pennell New Array and Array prototype Methods by Aurelio de Rosa New String Methods by Aurelio de Rosa New Number Methods by Aurelio de Rosa ES6 Arrow Functions Fat and Concise Syntax in JavaScript by Kyle Pennell Symbols and Their Uses by Nilson Jacques How to Use Proxies by Craig Buckler Destructuring Assignment by Craig Buckler ES6 Generators and Iterators a Developer Guide by Byron Houwens Object oriented JavaScript A Deep Dive into ES6 Classes by Jeff Mott Understanding ES6 Modules by Craig Buckler An Overview of JavaScript Promises by Sandeep Panda JavaScript Decorators What They Are and When to Use Them by Graham Cox Enhanced Object Literals by Craig Buckler Introduction to the Fetch API by Ludovico Fischer ES6 ES2015 and Beyond Understanding JavaScript Versioning by James Wright What s New in ES2017 Async Functions Improved Objects and More by Craig Buckler What s New in ES2018 by Craig Buckler This book is for all front end developers who wish to improve their JavaScript skills You ll need to be familiar with HTML and CSS and have a reasonable level of understanding of JavaScript in order to follow the discussion

Mastering MEAN Stack Pinakin Ashok Chaubal, 2023-06-23 A step by step guide to building web applications with the MEAN stack

KEY FEATURES Gain a comprehensive understanding of full stack development and the MEAN stack Implement automated testing using Supertest and JEST for reliable and efficient code testing Understand the importance of deployment with containers

DESCRIPTION The MEAN stack comprising MongoDB Express js Angular and Node js is a widely used and robust web development framework Acquiring expertise in the MEAN stack will equip you with the necessary skills to strengthen your web development capabilities enabling you to build efficient and modern web applications This book is a comprehensive guide to full stack development using the MEAN stack MongoDB Express js Angular and Node js It covers all the essential aspects of building robust web applications from architectural design to implementation The book introduces the fundamentals of full stack development and the advantages of using the MEAN stack It explains the installation and configuration of the MEAN stack components and teaches how to connect them to create powerful full stack applications seamlessly The book also covers security mechanisms like authentication and authorization to ensure application security The book will help you gain proficiency in front end development with Angular and back end integration with Node js The book also covers real time data updates using NATS Streaming automated testing techniques and the integration of additional services like comments By the end of the book you can confidently build full stack applications using the MEAN stack

WHAT YOU WILL LEARN Install and configure the necessary components for building web applications Master frontend development using Angular including component creation and data binding Discover the power of Node js and its integration with Angular for efficient backend development Explore the integration of the Comments service and understand the concepts of subdocuments and references Test the integration of the Posts and Comments service ensuring smooth communication between the two components

WHO THIS BOOK IS FOR Whether you are an absolute beginner or an experienced developer this book caters to both audiences providing valuable insights and

practical knowledge TABLE OF CONTENTS 1 Fundamentals of Full Stack Development and the MEAN Stack 2 Architectural Design of Our Sample Application 3 Installing the Components 4 Creation of the Frontend Using Angular 5 Addition of Node js and Ideas for Integration 6 Handling Authorization 7 Creating the Posts Service and NATS Streaming Integration 8 Introducing Automated Testing 9 Integrating the Comments Service 10 Creating the Comments Service 11 Implementing the Frontend **Advancing Uncertain Combinatorics through Graphization, Hyperization, and Uncertainization:**

Fuzzy, Neutrosophic, Soft, Rough, and Beyond Takaaki Fujita, Florentin Smarandache, 2025-01-20 This book is the fifth volume in the series of Collected Papers on Advancing Uncertain Combinatorics through Graphization Hyperization and Uncertainization Fuzzy Neutrosophic Soft Rough and Beyond This volume specifically delves into the concept of Various SuperHyperConcepts building on the foundational advancements introduced in previous volumes The series aims to explore the ongoing evolution of uncertain combinatorics through innovative methodologies such as graphization hyperization and uncertainization These approaches integrate and extend core concepts from fuzzy neutrosophic soft and rough set theories providing robust frameworks to model and analyze the inherent complexity of real world uncertainties At the heart of this series lies combinatorics and set theory cornerstones of mathematics that address the study of counting arrangements and the relationships between collections under defined rules Traditionally combinatorics has excelled in solving problems involving uncertainty while advancements in set theory have expanded its scope to include powerful constructs like fuzzy and neutrosophic sets These advanced sets bring new dimensions to uncertainty modeling by capturing not just binary truth but also indeterminacy and falsity In this fifth volume the exploration of Various SuperHyperConcepts provides an innovative lens to address uncertainty complexity and hierarchical relationships It synthesizes key methodologies introduced in earlier volumes such as hyperization and neutrosophic extensions while advancing new theories and applications From pioneering hyperstructures to applications in advanced decision making language modeling and neural networks this book represents a significant leap forward in uncertain combinatorics and its practical implications across disciplines The book is structured into 17 chapters each contributing unique perspectives and advancements in the realm of Various SuperHyperConcepts and their related frameworks Chapter 1 introduces the concept of Body Mind Soul Spirit Fluidity within psychology and phenomenology while examining established social science frameworks like PDCA and DMAIC It extends these frameworks using Neutrosophic Sets a flexible extension of Fuzzy Sets to improve their adaptability for mathematical and programming applications The chapter emphasizes the potential of Neutrosophic theory to address multi dimensional challenges in social sciences Chapter 2 delves into the theoretical foundation of Hyperfunctions and their generalizations such as Hyperrandomness and Hyperdecision Making It explores higher order frameworks like Weak Hyperstructures Hypergraphs and Cognitive Hypermaps aiming to establish their versatility in addressing multi layered problems and setting a foundation for further studies Chapter 3 extends traditional decision making methodologies into HyperDecision Making and n

SuperHyperDecision Making By building on approaches like MCDM and TOPSIS this chapter develops frameworks capable of addressing complex decision making scenarios emphasizing their applicability in dynamic multi objective contexts Chapter 4 explores integrating uncertainty frameworks including Fuzzy Neutrosophic and Plithogenic Sets into Large Language Models LLMs It proposes innovative models like Large Uncertain Language Models and Natural Uncertain Language Processing integrating hierarchical and generalized structures to advance the handling of uncertainty in linguistic representation and processing Chapter 5 introduces the Natural n Superhyper Plithogenic Language by synthesizing natural language plithogenic frameworks and superhyperstructures This innovative construct seeks to address challenges in advanced linguistic and structural modeling blending attributes of uncertainty complexity and hierarchical abstraction Chapter 6 defines mathematical extensions such as NeutroHyperstructures and AntiHyperstructures using the Neutrosophic Triplet framework It formalizes structures like neutro superhyperstructures advancing classical frameworks into higher dimensional realms Chapter 7 explores the extension of Binary Code Gray Code and Floorplans through hyperstructures and superhyperstructures It highlights their iterative and hierarchical applications demonstrating their adaptability for complex data encoding and geometric arrangement challenges Chapter 8 investigates the Neutrosophic TwoFold SuperhyperAlgebra combining classical algebraic operations with neutrosophic components This chapter expands upon existing algebraic structures like Hyperalgebra and AntiAlgebra exploring hybrid frameworks for advanced mathematical modeling Chapter 9 introduces Hyper Z Numbers and SuperHyper Z Numbers by extending the traditional Z Number framework with hyperstructures These extensions aim to represent uncertain information in more complex and multidimensional contexts Chapter 10 revisits category theory through the lens of hypercategories and superhypercategories By incorporating hierarchical and iterative abstractions this chapter extends the foundational principles of category theory to more complex and layered structures Chapter 11 formalizes the concept of n SuperHyperBranch width and its theoretical properties By extending hypergraphs into superhypergraphs the chapter explores recursive structures and their potential for representing intricate hierarchical relationships Chapter 12 examines superhyperstructures of partitions integrals and spaces proposing a framework for advancing mathematical abstraction It highlights the potential applications of these generalizations in addressing hierarchical and multi layered problems Chapter 13 revisits Rough HyperRough and SuperHyperRough Sets introducing new concepts like Tree HyperRough Sets The chapter connects these frameworks to advanced approaches for modeling uncertainty and complex relationships Chapter 14 explores Plithogenic SuperHyperStructures and their applications in decision making control and neuro systems By integrating these advanced frameworks the chapter proposes innovative directions for extending existing systems to handle multi attribute and contradictory properties Chapter 15 focuses on superhypergraphs expanding hypergraph concepts to model complex structural types like arboreal and molecular superhypergraphs It introduces Generalized n th Powersets as a unifying framework for broader mathematical applications

while also touching on hyperlanguage processing Chapter 16 defines NeutroHypergeometry and AntiHypergeometry as extensions of classical geometric structures Using the Geometric Neutrosophic Triplet the chapter demonstrates the flexibility of these frameworks in representing multi dimensional and uncertain relationships Chapter 17 establishes the theoretical groundwork for SuperHyperGraph Neural Networks and Plithogenic Graph Neural Networks By integrating advanced graph structures this chapter opens pathways for applying neural networks to more intricate and uncertain data representations

Mastering JavaScript Single Page Application Development Philip Klauzinski, John Moore, 2016-10-28 An in depth guide to exploring the design architecture and techniques behind building sophisticated scalable and maintainable single page applications in JavaScript About This Book Build large scale feature complete SPAs by leveraging widely used tools and techniques Gain a solid understanding of architecture and SPA design to build applications using the library or framework of your choice Explore the various facets of SPA development to build web apps that are fast scalable and easy to test Who This Book Is For This book is ideal for JavaScript developers who want to build complex single page applications in JavaScript Some basic understanding of SPA concepts will be helpful but not essential What You Will Learn Organize your development environment using the command line with NPM Bower and Grunt Choose an accurate design pattern for your app Understand modular JavaScript programming and Node js Interact with a REST API using JavaScript and AJAX with practical examples Build a single page application using the MEAN stack Connect your app across popular social media platforms such as Facebook Twitter and LinkedIn Test your app both on the server side and in views Prepare your app for the real world and deploy it to Heroku In Detail Single page web applications or SPAs as they are commonly referred to are quickly becoming the de facto standard for web app development The fact that a major part of the app runs inside a single web page makes it very interesting and appealing Also the accelerated growth of browser capabilities is pushing us closer to the day when all apps will run entirely in the browser This book will take your JavaScript development skills to the next level by teaching you to create a single page application within a full stack JavaScript environment Using only JavaScript you can go from being a front end developer to a full stack application developer with relative ease You will learn to cross the boundary from front end development to server side development through the use of JavaScript on both ends Use your existing knowledge of JavaScript by learning to manage a JSON document data store with MongoDB writing a JavaScript powered REST API with Node js and Express and designing a front end powered by AngularJS This book will teach you to leverage the MEAN stack to do everything from document database design routing REST web API requests data binding within views and adding authentication and security to building a full fledged complex single page web application In addition to building a full stack JavaScript app you will learn to test it with JavaScript powered testing tools such as Mocha Karma and Jasmine Finally you will learn about deployment and scaling so that you can launch your own apps into the real world Style and approach Following a structured approach this book helps readers gain expertise in SPA development Its

thorough coverage of SPA architecture and design along with practical use cases provides readers with a clear path to building applications with the library of their choice For readers who are afraid to take the plunge straightaway the book also offers step by step guidance on developing a complex web app *Exploring Raspberry Pi* Derek Molloy,2016-06-09 Expand Raspberry Pi capabilities with fundamental engineering principles Exploring Raspberry Pi is the innovators guide to bringing Raspberry Pi to life This book favors engineering principles over a recipe approach to give you the skills you need to design and build your own projects You ll understand the fundamental principles in a way that transfers to any type of electronics electronic modules or external peripherals using a learning by doing approach that caters to both beginners and experts The book begins with basic Linux and programming skills and helps you stock your inventory with common parts and supplies Next you ll learn how to make parts work together to achieve the goals of your project no matter what type of components you use The companion website provides a full repository that structures all of the code and scripts along with links to video tutorials and supplementary content that takes you deeper into your project The Raspberry Pi s most famous feature is its adaptability It can be used for thousands of electronic applications and using the Linux OS expands the functionality even more This book helps you get the most from your Raspberry Pi but it also gives you the fundamental engineering skills you need to incorporate any electronics into any project Develop the Linux and programming skills you need to build basic applications Build your inventory of parts so you can always make it work Understand interfacing controlling and communicating with almost any component Explore advanced applications with video audio real world interactions and more Be free to adapt and create with Exploring Raspberry Pi

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Full Stack Javascript Development With Mean Introduction

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