



Practical Node.js

Building Real-World Scalable Web Apps

—
Second Edition
—

Azat Mardan

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Practical Node Js Building Real World Scalable Web Apps

Pedro Teixeira



Practical Node Js Building Real World Scalable Web Apps:

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Practical Node.js Azat Mardan, 2014-07-17 Practical Node js is your step by step guide to learning how to build a wide range of scalable real world web applications using a professional development toolkit Node js is an innovative and highly efficient platform for creating web services But Node js doesn t live in a vacuum In a modern web development many different components need to be put together routing database driver ORM session management OAuth HTML template engine CSS compiler and many more 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 As a web developer you ll work with a varied collection of standards and frameworks Practical Node js shows you how all those pieces fit together Practical Node js takes you from installing all the necessary modules to writing full stack web applications by harnessing the power of the Express js and Hapi frameworks the MongoDB database with Mongoskin and Mongoose Jade

and Handlebars template engines Stylus and LESS CSS languages OAuth and Everyauth libraries and the Socket IO and Derby libraries and everything in between The book 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 You already know what Node js is now learn what you can do with it and how far you can take it Introduction to JavaScript Programming Professional Level CPA John kimani,Dr. James Scott ,2023-07-19

Introduction to JavaScript Manipulating Web Page Content with JavaScript Communicating with Web Servers Using JavaScript Object Oriented Programming in JavaScript Advanced JavaScript Programming Concepts Arrays and Objects Methods Control Structures and Functions in JavaScript Working with JavaScript Libraries and Frameworks **Node.js**

Projects Jonathan Wexler,2025-07-31 Whether you re a JavaScript beginner ready to build your first backend app or a self taught developer looking to grow beyond tutorials Node js Projects gives you the hands on experience you need Through a series of self contained projects ranging from content aggregators to secure password managers web scrapers ML backed analysis and an AI powered learning assistant you ll apply modern tools like Fastify MongoDB Redis JWT and Google s Gemini API in practical job relevant ways With each chapter author Jonathan Wexler challenges you to think like an engineer emphasizing architectural thinking clean coding and iterative design You ll build confidence solving real world problems while deepening your understanding of asynchronous programming API design security practices and scalable deployment patterns Confidently master async programming with async await and the Node js event loop Effectively design scalable APIs using Fastify and modular routing patterns Reliably manage data with the filesystem MongoDB and CSV output Securely implement authentication flows with JWTs and environment based configs Seamlessly integrate third party APIs like OpenAI and Google Gemini Efficiently build real time features with Redis schedulers and event driven logic Smoothly transition from prototype to production with modern Node js workflows *AI-Oriented Competency Framework for Talent Management in the Digital Economy* Alex Khang,2024-05-29

In the digital driven economy era an AI oriented competency framework AIoCF is a collection to identify AI oriented knowledge attributes efforts skills and experiences AKASE that directly and positively affect the success of employees and the organization The application of skills based competency analytics and AI equipped systems is gradually becoming accepted by business and production organizations as an effective tool for automating several managerial activities consistently and efficiently in developing and moving the capacity of a company up to a world class level *AI Oriented Competency Framework for Talent Management in the Digital Economy* Models Technologies Applications and Implementation discusses all the points of an AIoCF which includes predictive analytics advisory services predictive maintenance and automated processes which help to make the operations of project management personnel management or administration more efficient profitable and safe The book includes the functionality of emerging career pathways hybrid learning models and learning paths related to the learning and development of employees in the production or delivery fields

It also presents the relationship between skills taxonomy and competency framework with interactive methods using datasets processing workflow diagrams and architectural diagrams for easy understanding of the application of intelligent functions in role based competency systems By also covering upcoming areas of AI and data science in many government and private organizations the book not only focuses on managing big data and cloud resources of the talent management system but also provides cybersecurity techniques to ensure that systems and employee competency data are secure This book targets a mixed audience of students engineers scholars researchers academics and professionals who are learning researching and working in the field of workforce training human resources talent management systems requirement headhunting outsourcing and manpower consultant services from different cultures and industries in the era of digital economy

React Quickly Azat Mardan,2017-08-20 Summary React Quickly is for anyone who wants to learn React js fast This hands on book teaches you the concepts you need with lots of examples tutorials and a large main project that gets built throughout the book Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Successful user interfaces need to be visually interesting fast and flowing The React js JavaScript library supercharges view heavy web applications by improving data flow between UI components React sites update visual elements efficiently and smoothly minimizing page reloads React is developer friendly with a strong ecosystem to support the dev process along the full application stack And because it s all JavaScript React is instantly familiar About the Book React Quickly is the tutorial for web developers who want to get started fast with React js Following carefully chosen and clearly explained examples you ll learn React development using your existing JavaScript and web dev skills You ll explore a host of different projects as you learn about web components forms and data What s Inside Master React fundamentals Build full web apps with data and routing Test components Optimize React apps About the Reader This book is for developers comfortable building web applications with JavaScript About the Author Azat Mardan is a Tech Fellow at Capital One with extensive experience using and teaching JavaScript and Node and author of several books on JavaScript Node React and Express Table of Contents PART 1 REACT FOUNDATION Meeting React Baby steps with React Introduction to JSX Making React interactive with states React component lifecycle events Handling events in React Working with forms in React Scaling React components Project Menu component Project Tooltip component Project Timer component PART 2 REACT ARCHITECTURE The Webpack build tool React routing Working with data using Redux Working with data using GraphQL Unit testing React with Jest React on Node and Universal JavaScript Project Building a bookstore with React Router Project Checking passwords with Jest Project Implementing autocomplete with Jest Express and MongoDB APPENDIXES Appendix A Installing applications used in this book Appendix B React cheatsheet Appendix C Express js cheatsheet Appendix D MongoDB and Mongoose cheatsheet Appendix E ES6 for success

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Building Real-Time Applications with Node.js Nolan Brackenridge,Talon Fitzgerald,2025-06-14 Create High Performance Real Time Web Apps with Node js Looking to build real time applications that can scale seamlessly Building Real Time Applications with Node js is your go to guide for creating fast scalable web apps that update in real time all with the power of Node js Whether you re a developer seeking to understand Node js in depth or looking to enhance your real time app development skills this book takes you through the entire process from basic concepts to advanced techniques With step by step instructions and practical projects you ll master real time web technologies like WebSockets Socket io and REST APIs to handle thousands of simultaneous users with ease What You ll Learn Inside Building Real Time Applications Understand the core concepts behind real time apps and how to use Node js to create them Using WebSockets and Socket io Set up WebSockets to allow real time bidirectional communication between the client and server Creating Scalable Architectures Design applications that can scale effectively to support a large number of concurrent users Developing APIs with Node js Learn how to create robust REST APIs to handle requests efficiently Deploying Real Time Applications Understand how to deploy your real time apps to the cloud with platforms like Heroku and AWS Handling Data in Real Time Use Redis MongoDB and other technologies to

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Learn Node. Js by Building 6 Projects Eduonix Learning Solutions,2018-03-30 This is an advanced practical guide to harnessing the power of Node js by creating 6 full scale real world projects from creating a chat application to an eLearning system Key Features Develop scalable and lightweight applications using Node js Learn how to interface Node js with other popular technologies such as MongoDB MySQL and more Your companion to master the Node ecosystem through six real world projects Book Description With its event driven architecture and efficient web services capabilities more and more companies are building their entire infrastructure around Node js Node has become a de facto part of web development that any serious developer needs to master This book includes six Node js projects that gradually increase in complexity You ll start by building a simple web server and create a basic website You will then move to create the login system blog system chat system and e learning system By creating and

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Full-Stack Web Development THOMPSON. CARTER,2025-03-21 Take your web development skills to the next level with Full Stack Web Development Building Scalable Web Apps with React and Node js This hands on guide will teach you how to build dynamic real world web applications using two of the most powerful frameworks in the industry React and Node js Whether you re a beginner looking to break into web development or an experienced developer looking to enhance your full stack capabilities

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Production-ready Web Apps with Node.js Gireesh Punathil, 2021-11-09 Learn web application development through design thinking and illustrated use cases

KEY FEATURES Learn from Node.js community leader to design production ready applications Numerous examples and use cases demonstrate how to create web components of your choice Covers best practices on writing error free and high performant codes for scaling Node.js apps

DESCRIPTION Building Production ready Web Apps with Node.js teaches you how a web application works from the inside out with detailed illustrations of the various components You should be able to use the knowledge to develop new web applications enhance existing applications or re architect applications to meet new workload characteristics or deployment scenarios This book written by a Node.js community leader walks you through the various aspects of a web application beginning with platform selection and ending with production problem determination It offers unique Node.js features that make it a high performer in IO workloads The book then walks you through the components of a web application such as the front end back end middleware functions database and third party services There are several real world case studies and illustrative examples to help you internalize the knowledge easily If you read this book you should be able to apply what you've learned in your current job situation This book will provide you with the ability to appreciate and rationalize the design considerations of modern web technologies

WHAT YOU WILL LEARN Learn how to create web app components from zero Receive expert guidance on optimizing backend components performance Develop the ability to convert monolithic applications to microservices Utilize cutting edge techniques to reinvent web components for maximum production strength

WHO THIS BOOK IS FOR This book is intended for students mobile developers application developers and architects who want to create and redesign web applications Prior experience with JavaScript programming is preferred but not required

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