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Professional Node.js Pedro Teixeira,2012-10-01 Learn to build fast and scalable software in JavaScript with Node js Node js is a powerful and popular new framework for writing scalable network programs using JavaScript This no nonsense book begins with an overview of Node js and then quickly dives into the code core concepts and APIs In depth coverage pares down the essentials to cover debugging unit testing and flow control so that you can start building and testing your own modules right away Covers node and asynchronous programming main concepts Addresses the basics modules buffers events and timers Explores streams file systems networking and automated unit testing Goes beyond the basics and shares techniques and tools for debugging unit testing and flow control If you already know JavaScript and are curious about the power of Node js then this is the ideal book for you *Professional Node.js* Pedro Teixeira,2012-10-23 Learn to build fast and scalable software in JavaScript with Node js Node js is a powerful and popular new framework for writing scalable network programs using JavaScript This no nonsense book begins with an overview of Node js and then quickly dives into the code core concepts and APIs In depth coverage pares down the essentials to cover debugging unit testing and flow control so that you can start building and testing your own modules right away Covers node and asynchronous programming main concepts Addresses the basics modules buffers events and timers Explores streams file systems networking and automated unit testing Goes beyond the basics and shares techniques and tools for debugging unit testing and flow control If you already know JavaScript and are curious about the power of Node js then this is the ideal book for you **Development of a Remote Laboratory for Engineering Education** Ning Wang,Qianlong Lan,Xuemin Chen,Gangbing Song,Hamid Parsaei,2020-04-03 The field of information technology continues to advance at a brisk pace including the use of Remote Laboratory RL systems in education and research To address the needs of remote laboratory development for such purposes the authors present a new state of the art unified framework for RL system development Included are solutions to commonly encountered RL implementation issues such as third party plugin traversing firewalls cross platform running and scalability etc Additionally the book introduces a new application architecture of remote lab for mobile optimized RL application development for Mobile Learning M Learning It also shows how to design and organize the remote experiments at different universities and make available a framework source code The book is intended to serve as a complete guide for remote lab system design and implementation for an audience comprised of researchers practitioners and students to enable them to rapidly and flexibly implement RL systems for a range of fields **Advances in Intelligent Systems and Computing III** Natalia Shakhovska,Mykola O. Medykovskyy,2018-11-19 This book reports on new theories and applications in the field of intelligent systems and computing It covers computational and artificial intelligence methods as well as advances in computer vision current issues in big data and cloud computing computation linguistics and cyber physical systems It also reports on data mining and knowledge extraction technologies as well as central issues in intelligent information

management Written by active researchers the respective chapters are based on papers presented at the International Conference on Computer Science and Information Technologies CSIT 2018 held on September 11 14 2018 in Lviv Ukraine and jointly organized by the Lviv Polytechnic National University Ukraine the Kharkiv National University of Radio Electronics Ukraine and the Technical University of Lodz Poland under patronage of Ministry of Education and Science of Ukraine Given its breadth of coverage the book provides academics and professionals with extensive information and a timely snapshot of the field of intelligent systems and is sure to foster new discussions and collaborations among different groups

Advanced Information Networking and Applications Leonard Barolli,Farookh Hussain,Tomoya Enokido,2022-03-30 This book covers the theory design and applications of computer networks distributed computing and information systems Networks of today are going through a rapid evolution and there are many emerging areas of information networking and their applications Heterogeneous networking supported by recent technological advances in low power wireless communications along with silicon integration of various functionalities such as sensing communications intelligence and actuations is emerging as a critically important disruptive computer class based on a new platform networking structure and interface that enable novel low cost and high volume applications Several of such applications have been difficult to realize because of many interconnections problems To fulfill their large range of applications different kinds of networks need to collaborate and wired and next generation wireless systems should be integrated in order to develop high performance computing solutions to problems arising from the complexities of these networks The aim of the book Advanced Information Networking and Applications is to provide the latest research findings innovative research results methods and development techniques from both theoretical and practical perspectives related to the emerging areas of information networking and applications *Mastering Node.js* Sandro Pasquali,Kevin Faaborg,2017-12-29 Node js with its strong features and ability to write server as well as client side code with JavaScript has become a popular choice amongst developers for building powerful web applications This book is a deep dive into showing facets of Node which are helpful for creating highly concurrent and scalable real time applications **Innovative Computing and Communications** Aboul Ella Hassanien,Sameer Anand,Ajay Jaiswal,Prabhat Kumar,2024-10-14 This book includes high quality research papers presented at the Seventh International Conference on Innovative Computing and Communication ICICC 2024 which is held at the Shaheed Sukhdev College of Business Studies University of Delhi Delhi India on 16 17 February 2024 Introducing the innovative works of scientists professors research scholars students and industrial experts in the field of computing and communication the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real time applications *Online Engineering & Internet of Things* Michael E. Auer,Danilo G. Zutin,2017-09-14 This book discusses online engineering and virtual instrumentation typical working areas for today s engineers and inseparably connected with areas such as Internet of Things cyber physical systems collaborative

networks and grids cyber cloud technologies and service architectures to name just a few It presents the outcomes of the 14th International Conference on Remote Engineering and Virtual Instrumentation REV2017 held at Columbia University in New York from 15 to 17 March 2017 The conference addressed fundamentals applications and experiences in the field of online engineering and virtual instrumentation in the light of growing interest in and need for teleworking remote services and collaborative working environments as a result of the globalization of education The book also discusses guidelines for education in university level courses for these topics **Beginning API Development with Node. Js** Anthony Nandaa,2018-07-23 Learn everything you need to get up and running with cutting edge API development using JavaScript and Node js ideal for data intensive real time applications that run across multiple platforms Key Features Build web APIs from start to finish using JavaScript across the development stack Explore advanced concepts such as authentication with JWT and running tests against your APIs Implement over 20 practical activities and exercises across 9 topics to reinforce your learning Book Description Using the same framework to build both server and client side applications saves you time and money This book teaches you how you can use JavaScript and Node js to build highly scalable APIs that work well with lightweight cross platform client applications It begins with the basics of Node js in the context of backend development and quickly leads you through the creation of an example client that pairs up with a fully authenticated API implementation By the end of the book you ll have the skills and exposure required to get hands on with your own API development project What you will learn Understand how Node js works its trends and where it is being used now Learn about application modularization and built in Node js modules Use the npm third party module registry to extend your application Gain an understanding of asynchronous programming with Node js Develop scalable and high performing APIs using hapi js and Knex js Write unit tests for your APIs to ensure reliability and maintainability Who this book is for This book is ideal for developers who already understand JavaScript and are looking for a quick no frills introduction to API development with Node js Though prior experience with other server side technologies such as Python PHP ASP NET Ruby will help it s not essential to have a background in backend development before getting started **Pro Node.js for Developers** Colin J. Ihrig,2014-01-18 Since it s creation in 2009 Node js has grown into a powerful and increasingly popular asynchronous development framework for creating highly scalable network applications using JavaScript Respected companies such as Dow Jones and LinkedIn are among the many organizations to have seen Node s potential and adopted it into their businesses Pro Node js for Developers provides a comprehensive guide to this exciting new technology We introduce you to Node what it is why it matters and how to set it up before diving deeply into the key concepts and APIs that underpin its operation Building upon your existing JavaScript skills you ll be shown how to use Node js to build both Web and Network based applications to deal with data sources capture events and deal with child processes to create robust applications that will work well in a wide range of circumstances Once you ve mastered these skills we ll go further teaching you more advanced software engineering skills

that will give your code a professional edge You ll learn how to create easily reusable modules that will save you time through code reuse to log and debug your applications quickly and effectively and to write code that will scale easily and reliably as the demand for your application grows *Professional Visual Studio 2017* Bruce Johnson,2017-11-06 Skip the basics and delve right into Visual Studio 2017 advanced features and tools Professional Visual Studio 2017 is the industry favorite guide to getting the most out of Microsoft s primary programming technology From touring the new UI to exploiting advanced functionality this book is designed to help professional developers become more productive A unique IDE centric approach provides a clear path through the typical workflow while exploring the nooks and crannies that can make your job easier Visual Studio 2017 includes a host of features aimed at improving developer productivity and UI and this book covers them all with clear explanation new figures and expert insight Whether you re new to VS or just upgrading this all inclusive guide is an essential resource to keep within arm s reach Visual Studio 2017 fixes the crucial issues that kept professionals from adopting VS 2015 and includes new features and tools that streamline the developer s job This book provides the straightforward answers you need so you can get up to speed quickly and get back to work Master the core functionality of Visual Studio 2017 Dig into the tools that make writing code easier Tailor the environment to your workflow not the other way around Work your way through configuration debugging building deployment customizing and more Microsoft is changing their release cadence it s only been about two years since the last release so developers need to quickly get a handle on new tools and features if they hope to remain productive The 2017 release is designed specifically to help you get more done in less time with greater accuracy and attention to detail If you re ready to get acquainted Professional Visual Studio 2017 is your ideal guide **Mastering Node.js** Sandro Pasquali,Kevin Faaborg,2017-12-29 Expert techniques for building fast servers and scalable real time network applications with minimal effort rewritten for Node js 8 and Node js 9 Key Features Packed with practical examples and explanations Mastering Node js contains everything you need to take your applications to the next level Unleash the full potential of Node js 9 to build real time and scalable applications Gain in depth knowledge of asynchronous programming event loops and parallel data processing Explore Node s innovative event non blocking design and build professional applications with the help of detailed examples Book Description Node js a modern development environment that enables developers to write server and client side code with JavaScript thus becoming a popular choice among developers This book covers the features of Node that are especially helpful to developers creating highly concurrent real time applications It takes you on a tour of Node s innovative event non blocking design showing you how to build professional applications This edition has been updated to cover the latest features of Node 9 and ES6 All code examples and demo applications have been completely rewritten using the latest techniques introducing Promises functional programming async await and other cutting edge patterns for writing JavaScript code Learn how to use microservices to simplify the design and composition of distributed systems From building serverless cloud functions to native C plugins from

chatbots to massively scalable SMS driven applications you ll be prepared for building the next generation of distributed software By the end of this book you ll be building better Node applications more quickly with less code and more power and know how to run them at scale in production environments What you will learn Build an Electron desktop app using Node that manages a filesystem Explore Streams and understand how they apply to building networked services Develop and deploy an SMS driven customer service application Use WebSockets for rapid bi directional communication Construct serverless applications with Amazon Lambda Test and debug with headless browsers CPU profiling Mocha Sinon and more Scale applications vertically and horizontally across multiple cores and web services Who this book is for This book is targeted at JavaScript developers who want to take an in depth look at the latest Node js framework to create faster scalable real time backend applications Basic JavaScript programming knowledge and also some previous Node js development experience are mandatory to get the best out of this book **Recent Advances in Communication Networks and Embedded Systems** Smain Femmam,Pascal Lorenz,2025-07-31 This book presents an enhanced selection of papers from the 7th International Conference on Communication and Network Technology ICCNT 2023 It highlights recent research and technological advances in embedded systems communications and signal processing along with emerging topics in these fields Key areas covered include Embedded Systems Electronics SoC MPSoC NoC reconfigurable computing system design and optimization Advanced Communications Circuits optical fiber applications RF and wireless communications Image Signal Processing Video processing compression cryptology watermarking real time systems Sensors Instrumentation Data acquisition biomedical signal processing industrial sensors Computer Engineering Networks Cloud computing cybersecurity internet technology and computing networks The book serves as a resource for researchers and professionals in these cutting edge technological domains Learning Node.js Marc Wandschneider,2013-06-20 Learning Node js A Hands On Guide to Building Web Applications in JavaScript Node js makes it far easier to create fast compact and reliable web network applications and web servers and is rapidly becoming indispensable to modern web developers Learning Node js brings together the knowledge and JavaScript code you need to build master the Node js platform and build server side applications with extraordinary speed and scalability You ll start by installing and running Node js understanding the extensions it uses and quickly writing your first app Next building on the basics you ll write more capable application servers and extend them with today s most powerful Node js tools and modules Finally you ll discover today s best practices for testing running Node js code on production servers and writing command line utilities Throughout the book author Marc Wandschneider teaches by walking you line by line through carefully crafted examples demonstrating proven techniques for creating highly efficient applications and servers Build Node js solutions that leverage your current JavaScript skills Master Node js nonblocking IO and async programming Handle more requests and increase your application s flexibility Use and write your own modules Perform common JSON web server tasks Use browsers to generate pages on the fly via Ajax calls and template libraries

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