Best Software Engineering Books

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Introduction to Software Engineering Manning Publications Software engineering education has a problem: universities and bootcamps teach aspiring engineers to write code, but they leave graduates to teach themselves the countless supporting tools required to thrive in real software companies. Building a Career in Software is the solution, a comprehensive guide to the essential skills that instructors don't need and professionals never think to teach: landing jobs, choosing teams and projects, asking good questions, running meetings, going on-call, debugging production problems, technical writing, making the most of a mentor, and much more. In over a decade building software at companies such as Apple and Uber, Daniel Heller has mentored and managed tens of engineers from a variety of training backgrounds, and those engineers inspired this book with their hundreds of questions about career issues and day-to-day problems. Designed for either random access or cover-to-cover reading, it offers concise treatments of virtually every non-technical challenge you will face in the first five years of your career—as well as a selection of industry-focused technical topics rarely covered in training. Whatever your education or technical specialty, Building a Career in Software can save you years of trial and error and help you succeed as a real-world software professional. What You Will Learn Discover every important nontechnical facet of professional programming as well as several key technical practices essential to the transition from student to professional Build relationships with your employer Improve your communication, including technical writing, asking good guestions, and public speaking Who This Book is For Software engineers either early in their careers or about to transition to the professional world; that is, all graduates of computer science or software engineering university programs and all software engineering boot camp participants.

Fowler Packt Publishing Ltd

This book gathers chapters from some of the top international empirical

software engineering researchers focusing on the practical knowledge necessary for conducting, reporting and using empirical methods in software engineering. Topics and features include guidance on how to design, conduct and report empirical studies. The volume also provides information across a range of techniques, methods and qualitative and quantitative issues to help build a toolkit applicable to the diverse software development contexts

The Missing README Apress

This is the most authoritative archive of Barry Boehm's contributions to software engineering. Featuring 42 reprinted articles, along with an introduction and chapter summaries to provide context, it serves as a "how-to" reference manual for software engineering best practices. It provides convenient access to Boehm's landmark work on product development and management processes. The book concludes with an insightful look to the future by Dr. Boehm.

Hands-On Software Engineering with Golang "O'Reilly Media, Inc." This book is a practical guide to discovering and exploiting security flaws in web applications. The authors explain each category of vulnerability using real-world examples, screen shots and code extracts. The book is extremely practical in focus, and describes in detail the steps involved in detecting and exploiting each kind of security weakness found within a variety of applications such as online banking, e-commerce and other web applications. The topics covered include bypassing login mechanisms, injecting code, exploiting logic flaws and compromising other users. Because every web application is different, attacking them entails bringing to bear various general principles, techniques and experience in an imaginative way. The most successful hackers go beyond this, and find ways to automate their bespoke attacks. This handbook describes a proven methodology that combines the virtues of human intelligence and computerized brute force, often with devastating results. The authors are professional penetration testers who have been involved in web application security for nearly a decade. They have presented training courses at the Black Hat security conferences

throughout the world. Under the alias "PortSwigger", Dafydd developed the popular Burp Suite of web application hack tools. Clean Code John Wiley & Sons The practice of enterprise application development has benefited from the emergence of many new enabling technologies. Multitiered object-oriented platforms, such as Java and .NET, have become commonplace. These new tools and technologies are capable of building powerful applications, but they are not easily implemented. Common failures in enterprise applications often occur because their developers do not understand the architectural lessons that experienced object developers have learned. Patterns of Enterprise Application Architecture is written in direct response to the stiff challenges that face enterprise application developers. The author, noted object-oriented designer Martin Fowler, noticed that despite changes in technology--from Smalltalk to CORBA to Java to .NET--the same basic design ideas can be adapted and applied to solve common problems. With the help of an expert group of contributors. Martin distills over forty recurring solutions into patterns. The result is an indispensable handbook of solutions that are applicable to any enterprise application platform. This book is actually two books in one. The first section is a short tutorial on developing enterprise applications, which you can read from start to finish to understand the scope of the book's lessons. The next section, the bulk of the book, is a detailed reference to the patterns themselves. Each pattern provides usage and implementation information, as well as detailed code examples in Java or C#. The entire book is also richly illustrated with UML diagrams to further explain the concepts. Armed with this book, you will have the knowledge necessary to make important architectural decisions about building an enterprise application and the proven patterns for use when building them. The topics covered include · Dividing an enterprise application into layers . The major approaches to organizing business logic · An in-depth treatment of mapping between objects and relational databases · Using Model-View-Controller to organize a Web presentation · Handling concurrency for data that spans multiple transactions · Designing distributed object interfaces Software Engineering in C "O'Reilly Media, Inc."

The Software Engineer's Guide to Freelance Consulting will help teach you to be an effective freelance software consultant, which will case you later decide freelancing is not for you, this chapter will help stream. You'll discover the right questions to ask, the key issues to enable you make more money, dedicate more time to hobbies, spend more time with your loved-ones and even discover new businesses. Table of Contents: Chapter 1: Finding Clients We will literally map out the client acquisition skills that are paramount for you to develop and thrive in the business of software consulting. We help answer questions any day of the week. will give you the step-by-step concrete TODOs to achieve competence and we explain some of the abstract theory. Chapter 2: Choosing a Rate How do some people charge \$2/hr and others \$500/hr? Where do you fit in? In this chapter we help you choose, justify and even increase your existing rate. Chapter 3: Keeping Yourself Educated How do you keep yourself from becoming outdated? How do you keep your skills in demand and the projects coming over time? We'll discuss that in this chapter. Chapter 4: Closing Deals You've got the interest but now how do you get the client to start working with you? We'll talk about closing sales as an engineer in this chapter. Chapter 5: Being Productive Productivity is a critical part of freelancing. Since most freelancers bill hourly it can make the difference between making \$100,000/year and \$300,000/year. This chapter contains tips to maximize your productivity as a freelancer. Chapter 6: Building & Maintaining Relationships Freelance consulting is a relationship-driven business As engineers however, we tend to shy away from this. In this chapter we will talk about how you can build strong relationships and reduce the amount of time you need to spend selling yourself to new clients. Chapter 7: Legal Ideas Being a consultant comes with legal implications that can save your butt when things go wrong. In this chapter our very own Silicon Valley Lawyer Richard Burt will give you some tips of the trade. Chapter 8: Making Great First Impressions First impressions are a primer for excellent long-term relationships that will yield great value to you. This chapter will talk about first impressions as a freelance tech person. Chapter 9: Getting Paid Okay, so you've completed some contracts and now you're waiting to get paid. How do you get paid faster? Can you reduce your risk? We'll discuss these things in this chapter and ever talk about how to deal with clients who don't pay. Chapter 10: Mustknow Tax Tips As a freelance consultant, managing your tax effectively will save you a TON of money at the end of the year. In this chapter we'll run through some basic tips that will help you minimize your tax liability so you can keep more hard-earned money in your pocket. Chapter 11: Communicating Effectively Say the wrong things and you can find yourself staying up late at night on the for you." --Bill Wake, independent consultant In 2003, Mary and weekend. Say the right things and you could find yourself making more money and spending more time with your family and friends. In this chapter we'll help you say less of the wrong things and more of the right things. Chapter 12: Freelancing Part-time What if you don't want to leave your current full-time job? What if you're in school fulltime, or taking care of children? This chapter will help part-time

freelancers. Chapter 13: Going Back to a "Regular" Coding Job In Chapter 14: Additional Resources Everyone who purchases the book receives an invitation to our Slack community. You'll even get a exercises for jumpstarting your own Lean initiatives. Managing to direct line to experienced freelancers (including the authors) that can extend, nourish, and leverage agile practices Building true

Team Geek No Starch Press

Provides information on how to write better JavaScript programs, covering such topics as functions, arrays, library and API design, and concurrency.

The Complete Software Developer's Career Guide "O'Reilly Media, Inc."

"This remarkable book combines practical advice, ready-to-use techniques, and a deep understanding of why this is the right way to develop software. I haveseen software teams transformed by the ideas in this book." -- Mike Cohn, author of Agile Estimating and Planning "As a lean practitioner myself, I have loved and used their first book for years. When this second book came out, I was delighted that it was even better. If youare interested in how lean principles can be useful for software developmentorganizations, this The best way to learn software engineering is by is the book you are looking for. The Poppendiecks offer abeautiful blend of history, theory, and practice." -- Alan Shalloway, coauthor of Design Patterns Explained "I've enjoyed reading the book very much. I feel it might even be better than thefirst lean book by Tom and Mary, while that one was already exceptionallygood! Mary especially has a lot of knowledge related to lean techniques inproduct development and manufacturing. It's rare that these techniques areactually translated to software. This is something no other book does well(except their first book)." -- Bas Vodde "The new book by Mary and Tom Poppendieck provides a well-written and comprehensive introduction to lean principles and selected practices for softwaremanagers and engineers. It illustrates the application of the values and practices with well-suited success stories. I enjoyed reading it." -- Roman Pichler "In Implementing Lean Software Development, the Poppendiecks explore moredeeply in other relevant courses or in real-world software the themes they introduced in Lean Software Development. They beginwith a compelling history of lean thinking, then move to key areas such asvalue, waste, and people. Each chapter includes exercises to help you apply keypoints. If you want a better understanding of how lean ideas can work withsoftware, this book is requirement engineering, system specifications, system Tom Poppendieck's Lean Software Development introduced breakthrough development techniques that leverage Lean principles to deliver unprecedented agility and value. Now their widely anticipated sequel and companion guide shows exactly how to implement Lean software development, hands-on. This new book draws on the Poppendiecks' unparalleled experience helping

development organizations optimize the entire software value you ease back into a "regular" job without ruffling too many feathers. focus on, and techniques proven to work. The authors present case studies from leading-edge software organizations, and offer practical development teams, not just groups Driving quality through rapid feedback and detailed discipline Making decisions Just-in-Time, but no later Delivering fast: How PatientKeeper delivers 45 rock-solid releases per year Making tradeoffs that really satisfy customers Implementing Lean Software Development is indispensable to anyone who wants more effective development processes--managers, project leaders, senior developers, and architects in enterprise IT and software companies alike. Cracking the Coding Interview Pearson Education Presents practical advice on the disciplines, techniques, tools, and practices of computer programming and how to approach software development with a sense of pride, honor, and selfrespect.

Refactoring Addison-Wesley Professional understanding its core and peripheral areas. Foundations of Software Engineering provides in-depth coverage of the areas of software engineering that are essential for becoming proficient in the field. The book devotes a complete chapter to each of the core areas. Several peripheral areas are also explained by assigning a separate chapter to each of them. Rather than using UML or other formal notations, the content in this book is explained in easy-to-understand language. Basic programming knowledge using an object-oriented language is helpful to understand the material in this book. The knowledge gained from this book can be readily used development environments. This textbook educates students in software engineering principles. It covers almost all facets of software engineering, including modeling, system architecture, system implementation, and system testing. Emphasizing practical issues, such as feasibility studies, this book explains how to add and develop software requirements to evolve software systems. This book was written after receiving feedback from several professors and software engineers. What

resulted is a textbook on software engineering that not only Refactoring is gaining momentum amongst the object

covers the theory of software engineering but also presents real-world insights to aid students in proper implementation. Students learn key concepts through carefully explained and illustrated theories, as well as concrete examples and a complete case study using Java. Source code is also available on the book's website. The examples and case studies increase in complexity as the book progresses to help students build a practical understanding of the required theories and applications.

The Software Engineer's Guide to Freelance Consulting "O'Reilly Media, Inc."

Now in the 5th edition, Cracking the Coding Interview gives you the interview preparation you need to get the top software developer jobs. This book provides: 150 Programming Interview Questions and Solutions: From binary trees to binary search, this list of 150 questions includes the most common and most useful questions in data structures, algorithms, and knowledge based questions. 5 Algorithm Approaches: Stop being blindsided by tough algorithm questions, and learn these five approaches to tackle the trickiest problems. Behind the Scenes of the interview processes at Google, Amazon, Microsoft, Facebook, Yahoo, and Apple: Learn what really goes on during your interview day and how decisions get made. Ten Mistakes Candidates Make -- And How to Avoid Them: Don't lose your dream job by making these common mistakes. Learn what many candidates do wrong, and how to avoid these issues. Steps to Prepare for Behavioral and Technical Questions: Stop meandering through an endless set of questions, while missing some of the most important preparation techniques. Follow these steps to more thoroughly prepare in less time. Apprenticeship Patterns Pearson Education

The author starts with the premise that C is an excellent language for software engineering projects. The book concentrates on programming style, particularly readability, maintainability, and portability. Documents the proposed ANS Standard, which is expected to be ratified in 1987. This book is designed as a text for both beginner and inter- mediate-level programmers.

Foundations of Software Engineering Pearson Education

oriented programming community. It can transform the internal dynamics of applications and has the capacity to transform bad code into good code. This book offers an introduction to refactoring.

Code Complete "O'Reilly Media, Inc."

Key concepts and best practices for new software engineers - stuf critical to your workplace success that you weren't taught in school. For new software engineers, knowing how to program is only half the battle. You'll quickly find that many of the skills and processes key to your success are not taught in any school or bootcamp. The Missing README fills in that gap—a distillation of workplace lessons, high-growth startups, experimenting with every aspect of the best practices, and engineering fundamentals that the authors have taught rookie developers at top companies for more than a decade. Early chapters explain what to expect when you begin your career at a company. The book's middle section expands your technical education, teaching you how to work with existing codebases, address and prevent technical debt, write production-grade software, manage dependencies, test effectively, do code reviews. safely deploy software, design evolvable architectures, and handle incidents when you're on-call. Additional chapters cover planning and interpersonal skills such as Agile planning, working effectively with your manager, and growing to senior levels and beyond. You'll learn: • How to use the legacy code change algorithm, and leave code cleaner than you found it • How to write operable code with logging, metrics, configuration, and defensive programming • How to write deterministic tests, submit code reviews, and give feedback on other people's code • The technical design process, including experiments, problem definition, documentation, and collaboration What to do when you are on-call, and how to navigate production incidents • Architectural techniques that make code change easier Agile development practices like sprint planning, stand-ups, and retrospectives This is the book your tech lead wishes every new engineer would read before they start. By the end, you'll know what it takes to transition into the workplace-from CS classes or bootcamps to professional software engineering.

Data Pipelines Pocket Reference Apress

WINNER of Computing Reviews 20th Annual Best Review in the category Management "Tyler's book is concise, reasonable, and full of interesting practices, including some curious ones you might consider adopting yourself if you become a software engineering manager." - Fernando Berzal, CR, 10/23/2015 "Josh Tyler crafts a concise, no-nonsense, intensely focused guide for building the workhouse of Silicon Valley-the high-functioning software team." -Gordon Rios, Summer Book Recommendations from the Smartest People We Know—Summer 2016 Building Great Software Engineering

Teams provides engineering leaders, startup founders, and CTOs concrete, industry-proven guidance and techniques for recruiting, hiring, and managing software engineers in a fastpaced, competitive environment. With so much at stake, the challenge of scaling up a team can be intimidating. Engineering leaders in growing companies of all sizes need to know how to find great candidates, create effective interviewing and hiring processes, bring out the best in people and their work, provide meaningful career development, learn to spot warning signs in their team, and manage their people for long-term success. Author Josh Tyler has spent nearly a decade building teams in task to see what works best. He draws on this experience to outline specific, detailed solutions augmented by instructive stories from his own experience. In this book you'll learn how to build your team, starting with your first hire and continuing through the stages of development as you manage your team for growth and success. Organized to cover each step of the process in the order you'll likely face them, and highlighted by stories of success and failure, it provides an easy-tounderstand recipe for creating your high-powered engineering team.

The Problem with Software Pearson Education The second edition of this best-selling Python book (over 500,000 copies sold!) uses Python 3 to teach even the technically uninclined how to write programs that do in minutes what would take hours to do by hand. There is no prior programming experience required and the book is loved by liberal arts majors and geeks alike. If you've ever spent hours renaming files or updating hundreds of spreadsheet cells, you know how tedious tasks like these can be. But what if you could have your computer do them for you? In this fully revised second edition of the bestselling classic Automate the Boring Stuff with Python, you'll learn how to use Python to write programs that do in minutes what would take you hours to do by hand--no prior programming experience required. You'll learn the basics of Python and explore Python's rich library of modules for performing specific tasks, like scraping data off websites, reading PDF and Word documents, and automating clicking and typing tasks. The second edition of this international fan favorite includes a brand-new chapter on input validation, as well as tutorials on automating Gmail and Google Sheets, plus tips on

automatically updating CSV files. You'll learn how to create methods to measure productivity Look at the intersection of

programs that effortlessly perform useful feats of automation to: • Search for text in a file or across multiple files • Create, update, move, and rename files and folders Search the Web and download online content
Update and format data in Excel spreadsheets of any size • Split, merge, watermark, and encrypt PDFs • Send email responses and text notifications • Fill out online forms Step-Anyone who develops software for a living needs a proven way to by-step instructions walk you through each program, and updated practice projects at the end of each chapter challenge you to improve those programs and use your newfound skills to automate similar tasks. Don't spend your time doing work a well-trained monkey could do. Even if you've never written a line of code, you can make your computer do the grunt work. Learn how in Automate the Boring Stuff with Python, 2nd Edition. Linux Basics for Hackers Pearson Deutschland GmbH Get the most out of this foundational reference and improve the productivity of your software teams. This open access book collects the wisdom of the 2017 "Dagstuhl" seminar on productivity in software engineering, a meeting of community leaders, who came together with the goal of rethinking traditional definitions and measures of productivity. The results of their work, Rethinking Productivity in Software Engineering, includes chapters covering definitions and core concepts related to productivity, guidelines for measuring productivity in specific contexts, best practices and pitfalls, and theories and open questions on productivity. You'll benefit from the many short chapters, each offering a focused discussion on one aspect of productivity in software engineering. Readers in many fields and industries will benefit from their collected work. Moving data from numerous diverse sources and transforming Developers wanting to improve their personal productivity, will learn effective strategies for overcoming common issues that interfere with progress. Organizations thinking about building internal programs for measuring productivity of programmers and teams will learn best practices from industry and researchers in measuring productivity. And researchers can leverage the conceptual frameworks and rich body of literature book addresses the most common decisions made by data in the book to effectively pursue new research directions. What professionals and discusses foundational concepts that apply You'll LearnReview the definitions and dimensions of software productivity See how time management is having the opposite of the intended effect Develop valuable dashboards Understand the impact of sensors on productivity Avoid software development waste Work with human-centered

neuroscience and productivity Manage interruptions and context-switching Who Book Is For Industry developers and those responsible for seminar-style courses that include a segment on software developer productivity. Chapters are written for a generalist audience, without excessive use of technical terminology.

The Clean Coder CRC Press

produce it better, faster, and cheaper. The Productive Programmer offers critical timesaving and productivity tools that you can adopt right away, no matter what platform you use. Master developer Neal Ford not only offers advice on the mechanics of productivity-how to work smarter, spurn interruptions, get the most out your computer, and avoid repetition-he also details valuable practices that will help you elude common traps, improve your code, and become more valuable to your team. You'll learn to: Write the test before you write the code Manage the lifecycle of your objects fastidiously Build only what you need now, not what you might need later Apply ancient philosophies to software development Question authority, rather than blindly adhere to standards Make hard things easier and impossible things possible through meta-programming Be sure all code within a method is at the same level of abstraction Pick the right editor and assemble the best tools for the job This isn't theory, but the fruits of Ford's real-world experience as an Application Architect at the global IT consultancy ThoughtWorks. Whether you're a beginner or a pro with years of experience, you'll improve your work and your career with the simple and straightforward principles in The Productive Programmer. Code Simplicity Simple Programmer, LLC

Software -- Software Engineering.

Effective JavaScript Pearson Education

Data pipelines are the foundation for success in data analytics. it to provide context is the difference between having data and actually gaining value from it. This pocket reference defines data pipelines and explains how they work in today's modern data stack. You'll learn common considerations and key decision points when implementing pipelines, such as batch versus streaming data ingestion and build versus buy. This to open source frameworks, commercial products, and homegrown solutions. You'll learn: What a data pipeline is and how it works How data is moved and processed on modern data infrastructure, including cloud platforms Common tools and products used by data engineers to build pipelines How

pipelines support analytics and reporting needs Considerations for pipeline maintenance, testing, and alerting