Software Engineering Manager Job Description

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Cracking the Coding Interview Appjungle.net LLC

In The Software Craftsman, Sandro Mancuso explains what craftsmanship means to

the developer and his or her organization, and shows how to live it every day in your real-world development environment. Mancuso shows how software craftsmanship fits with and helps students improve upon best-practice technical disciplines such as agile and lean, taking all development projects to the next level. Readers will learn how to change the disastrous perception that software developers are the same as factory workers, and that software projects can be run like factories.

Staff Engineer Apress

While there is a lot of appreciation for backend and distributed systems challenges, there tends to be less empathy for why mobile development is hard when done at scale. This book collects challenges engineers face when building iOS and Android apps at scale, and common ways to tackle these. By scale, we mean having numbers of users in the millions and being built by large engineering teams. For mobile engineers, this book is a blueprint for modern app engineering approaches. For non-mobile engineers and managers, it is a resource with which to build empathy and appreciation for the complexity of world-class mobile engineering. The book covers iOS and Android mobile app challenges on these dimensions: Challenges due to the unique nature of mobile applications compared to the web, and to the backend. App complexity challenges. How do you deal with increasingly complicated navigation patterns? What about non-deterministic event combinations? How do you localize across several languages, and how do you

scale your automated and manual tests? Challenges due to large engineering teams. The larger the mobile team, the more challenging it becomes to ensure a consistent architecture. If your company builds multiple apps, how do you balance not rewriting everything from scratch while moving at a fast pace, over waiting on "centralized" teams? Cross-platform approaches. The tooling to build mobile apps keeps changing. New languages, frameworks, and approaches that all promise to address the pain points of mobile engineering keep appearing. But which approach should you choose? Flutter, React Native, Cordova? Native apps? Reuse business logic written in Kotlin, C#, C++ or other languages? What engineering approaches do "world-class" mobile engineering teams choose in non-functional aspects like code quality, compliance, privacy, compliance, or with experimentation, performance, or app size?

Become an Effective Software Engineering Manager John Wiley & Sons

Learn how the best teams hire software engineers and fill technical roles. The Holloway Guide to Technical Recruiting and Hiring is the authoritative guide to growing software engineering teams effectively, written by and for hiring managers, recruiters, interviewers, and candidates. Hiring is rated as one of the biggest obstacles to growth by most CEOs. Hiring managers, recruiters, and interviewers all wrestle with how to source candidates, interview fairly and effectively, and ultimately motivate the right candidates to accept offers. Yet the process is costly, frustrating, and often stressful or unfair to candidates. Anyone who cares about building effective software teams will return to this book again and again. Inside, you'll find know-how from some of the most insightful and experienced leaders and practitioners—senior

engineers, recruiters, entrepreneurs, and hiring managers—who ' ve built teams from early-stage startups to thousand-person engineering organizations. The lead author of this guide, Ozzie Osman, previously led product engineering at Quora and teams at Google, and built (and sold) his own startup. Additional contributors include Aditya Agarwal, former CTO of Dropbox; Jennifer Kim, former head of diversity at Lever; veteran recruiters and startup founders Jose Guardado (founder of Build Talent and former Y Combinator) and Aline Lerner (CEO of Interviewing.io); and over a dozen others. Recruiting and hiring can be done well, in a way that has a positive impact on companies, employees, and every candidate. With the right foundations and practice, teams and candidates can approach a stressful and difficult process with knowledge and confidence. Ask your employer if you can expense this book—it's one of the highest-leverage investments they can make in your team.

Facts and Fallacies of Software Engineering

"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 blind-sided 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.

Building a Career in Software Pearson Education

Today, software engineers need to know not only how to program effectively but also how to develop proper engineering practices to make their codebase sustainable and healthy. This book emphasizes this difference between programming and software engineering. How can software engineers manage a living codebase that evolves and responds to changing requirements and demands over the length of its life? Based on their experience at Google, software engineers Titus Winters and Hyrum Wright, along with technical writer Tom Manshreck, present a candid and insightful look at how some of the world's leading practitioners construct and maintain software. This book covers Google's unique

engineering culture, processes, and tools and how these aspects contribute to the effectiveness of an engineering organization. You'll explore three fundamental principles that software organizations should keep in mind when designing, architecting, writing, and maintaining code: How time affects the sustainability of software and how to make your code resilient over time How scale affects the viability of software practices within an engineering organization What trade-offs a typical engineer needs to make when evaluating design and development decisions

Think Like a Software Engineering Manager Prentice Hall Professional

Master the skills and knowledge you need to succeed as a software engineer with this comprehensive guide. Whether you're new to the field or a seasoned professional, this book covers all the essential software development topics to help you stay up-to-date and excel in your role. This comprehensive guide covers essential topics in software engineering/software development. Read this book If: You want to start OR have started a

career in software engineering. You want to know about all the technical topics you need to succeed. You want to understand the entire process of software engineering. You want to learn what they will NOT teach you in school. You want to understand coding, multithreading, testing, and more! You would like to learn the soft skills you need for promotions. You want to know why you are NOT getting promoted. You want to understand deep technical topics, i.e., encryption+crypto. If you think your company is doing Agile wrong. After reading the book, you will: · Understand how to have a successful career in software engineering. · Have the technical knowledge to know how and where to grow. · Have the soft skills framework to help get you promoted and do your job exceptionally. · Understand how to make the best decisions · Understand the technology and psychology to excel Don't wait! Buy this book now! The

field of software engineering is so vast there is no way anyone can learn it all. With hundreds of languages and technologies, what you choose can make the difference between getting a job or not. From just thinking about a career in software engineering to senior level and beyond, this book has you covered. This book covers career, soft skills, processes, and deep technical details on coding, testing, architecture, and much more! Learn about software engineering and management career paths. Don't make mistakes that you can avoid with a little knowledge. Take your engineering knowledge to the next level to help you get the promotions you desire. If you are or plan to be a self-taught software engineer or plan on taking computer science/programming classes, you need this book to help you on your path. Get answers to: What classes should you take in high school/college?

Should you become a software engineer? What do Software Engineers / Developers / Programmers do? What kind of computer do you need? What industry sector should you work in? What don't they teach you in school? Should you do consulting vs. full-time? Do you need certifications? Should you use a staffing firm? What do software engineers do? How do I get a job? How do I get promoted? How do I understand what hardware does? How to become a Senior Software Engineer, Staff Software Engineer and more? How do I become a manager? Learn about: Agile with Scrum, Multithreading, Source Control, Working with a team, Architecture, Algorithms / Data Structures, Networking, File Systems, Overviews of the web, Unicode, Dependency Injection, Security, Privacy, Object Oriented Languages, Message tracing, Floating point number processing, User Interface Design, Time Management, Cryptocurrency, Encryption,

Recursion, Databases, Support, Testing, and much more! If you are looking for one of the best software engineering books, software development books, computer science books, or programming books, this is the right book for you. If you are or are planning to be a software engineer, software developer, application engineer, front end developer, tech career, or IT career, this is the book for you. If you find errors in the book, please don't leave that in a review. Please tell us directly. Go to the website mentioned at the end of the book. If you find errors visit our website.

Managing the Unmanageable

BlogIntoBook.com

About The Book: Richard Thayer s popular; bestselling book presents a top-down, practical view of managing a successful software engineering project. The book builds a framework for project management activities based on the planning, organizing, staffing, directing, and controlling model. Thayer provides information designed to help you

understand and successfully perform the unique role of a project manager. This book is a must for all project managers in the software field. The text focuses on the five functions of general management by first describing each function and then detailing the project management activities that support each function. This new edition shows you how to manage a software development project, discusses current software engineering management methodologies and techniques, and presents general descriptions and project management problems. The book serves as a guide for your future project management activities. The text also offers students sufficient background and instructional material to serve as a main supplementary text for a course in software engineering project management. · Introduction to Management · Software Engineering · Software Engineering Project Management · Planning s Software Engineering Project · Planning: Software Cost, Schedule, and Size · Organizing a Software Engineering Project · Staffing a Software Engineering Project · Directing a Software Engineering Project · Controlling

a Software Engineering Project · Controlling: Software Metrics and Visibility of Progress

Ask a Manager

O'Reilly Media

Although the book emphasizes Electronic Management the text may be valuable to all engineering managers. Before I prepared this book I discovered there was no formal training or written material to create new Engineering Managers in industry. Generally, when an engineer is promoted from within a company, he's given no prior instructions on how to manage his new organization. This happened to me when I was promoted to manager a very sophisticated Electronic Design Department with no prior training. I was told, "You're now the Manager of the Avionics Design Department responsible for designing electronic black boxes for Lockheed's aircraft." Designing electronics is one thing, but managing a large group of engineers who have as much experience as I have was not an easy task. It was no longer just technical ability and experience that allowed me to be the design leader but now I had to deal with personalities. Not

only did I have to monitor the designs but I also had to be concerned with budgets, schedules, deliveries, purchasing, meetings, etc. This book provides a different approach on a subject that has not been fully documented or thoroughly explained before. The method used here covers all aspects of Engineering Management mainly from an experienced point of view. Over the forty years in the electronic design business I have learned many management techniques, and by combining these experiences with my own ideas I believe I have created the ideal text that can be used to teach any engineer to become an Engineering Manager. The book may be used by companies to assist upper-management to monitor their programs and to train potential supervisors in the basic art of managing a department. It can be used as a guide by the graduating student or for the entrepreneur who is interested in starting up a new company. As I mentioned, this comprehensive book can be used by all types of engineers and not exclusively in the field of electronics. The

principles are basically the same. The military will find the information in this book an ideal text to train their personnel on how to monitor military programs and will help them in the process of selecting vendors and evaluating quotations. Chapter I covers what I consider to be the proper structure of a design team. It consists of the Electronic Design Manager (EDM), Electronic Engineers, System Engineers, Mechanical Engineers, Software Engineers, Printed Circuit Engineers, and Technicians. I thoroughly explain the responsibilities of each of these positions. To illustrate the management design structure I walk the reader through the design procedure of an example black box step by step. I discuss the complete electronic design approach and its mechanical enclosure. I then introduce a unique budget tracking system showing man-hours spread charts that will assist the EDM to monitor all of his programs. Chapter II covers the support organizations that are needed to make up the structure of a complete engineering company. It explains

the relationship these organizations have with the EDM design team and with the Engineering Project Manager (EPM). Examples of some of these support organizations are Reliability, Maintainability, etc. Chapter III covers the classical company structures of upper-management. It explains the different types of organizations such as Matrix and Projectize. It provides a complete Organizational Interface Chart and explains their relationship with upper-management. This chapter goes into explaining the duties of a Program Manager (PM) and the Engineering Project Manager and how they interface with

An Elegant Puzzle

ManagersClub

Managing Humans is a selection of the best essays from Michael Lopp's popular website Rands in Repose(www.randsinrepose.com). Lopp is one of the most sought-after IT managers in Silicon Valley, and draws on his experiences at Apple, Netscape, Symantec, and Borland. This book reveals a variety of different approaches for creating innovative, happy development teams. It covers handling conflict, managing wildly differing personality types, infusing innovation into insane product schedules, and figuring

out how to build lasting and useful engineering culture. The essays are biting, hilarious, and always informative.

The Manager's Path
John Wiley & Sons
It’s been said that software is eating the planet. The modern economy—the world itself—relies on technology. Demand for the people who can produce it far outweighs the supply. So why do developers occupy largely subordinate roles in the corporate structure? Developer Hegemony explores the past, present, and future of the corporation and what it means for developers. While it outlines problems with the modern corporate structure, it’s ultimately a play-by-play of how to leave the corporate carnival and control your own destiny. And it’s an emboldening, specific vision of what software development looks like in the world of developer hegemony—one where developers band together into partner firms of “efficiencers,” finally able to command the pay, respect, and freedom that’s earned by solving problems no one else can. Developers, if you grow tired of being treated like geeks who can only be trusted to take orders and churn out code, consider this your call to arms. Bring about the autonomous future that’s rightfully yours. It’s time for developer hegemony.

Building Great

Software Engineering Teams O'Reilly Media This book has assembled a guide that will help you hire, motivate, and mentor a software development team that functions at the highest level. Their rules of thumb and coaching advice form a great blueprint for new and experienced software engineering managers alike. All too often, software development is deemed unmanageable. The news is filled with stories of projects that have run catastrophically over schedule and budget. Principles of Software Engineering Management Packt Publishing Ltd Tap into the wisdom of experts to learn what every engineering manager should know. With 97 short and extremely useful tips for engineering managers, you'll discover new approaches to old problems, pick up road-tested best practices, and hone your management skills through sound advice. Managing people is hard, and the industry as a whole is bad at it. Many managers lack the experience, training, tools, texts, and

frameworks to do it well. From mentoring interns to working in senior management, this book will take you through the stages of management and provide actionable advice on how to approach the obstacles you'll encounter as a technical manager. A few of the 97 things you should know: "Three Ways to Be the Manager Your Report Needs" by Duretti Hirpa "The First Two Questions to Ask When Your Team Is Struggling" by Cate Huston "Fire Them!" by Mike Fisher "The 5 Whys of Organizational Design" by Kellan Elliott-McCrea "Career Conversations" by Raquel Vélez "Using 6-Page Documents to Close Decisions" by Ian Nowland "Ground Rules in Meetings" by Lara Hogan

The Effective Engineer

ManagersClub

Software startups make global headlines every day. As technology companies succeed and grow, so do their engineering departments. In your career, you'll may suddenly get the opportunity to lead teams: to

become a manager. But this is often uncharted territory. How can you decide whether this career move is right for you? And if you do, what do you need to learn to succeed? Where do you start? How do you know that you're doing it right? What does "it" even mean? And isn't management a dirty word? This book will share the secrets you need to know to manage engineers successfully. Going from engineer to manager doesn't have to be intimidating. Engineers can be managers, and fantastic ones at that. Cast aside the rhetoric and focus on practical, hands-on techniques and tools. You'll become an effective and supportive team leader that your staff will look up to. Start with your transition to being a manager and see how that compares to being an engineer. Learn how to better organize information, feel productive, and delegate, but not micromanage. Discover how to manage your own boss, hire and fire, do performance and

salary reviews, and build a great team. You'll also learn the psychology: how to ship while keeping staff happy, coach and mentor, deal with deadline pressure, handle sensitive information, and navigate workplace politics. Consider your whole department. How can you work with other teams to ensure best practice? How do you help form guilds and committees and communicate effectively? How can you create career tracks for individual contributors and managers? How can you support flexible and remote working? How can you improve diversity in the industry through your own actions? This book will show you how. Great managers can make the world a better place. Join us.

Debugging Teams

Addison-Wesley Professional

No one is taught how to apply for a job. Finding a job is hard work, time-consuming, stressful, and often frustrating. I aim to make it simpler for you to get the engineering leadership position

you want. A well-written resume is an important tool. Consider your resume as a sales sheet—and you are a product! A resume for an engineering manager should highlight your technical expertise and experience managing teams and projects. It should also demonstrate your ability to communicate effectively and drive technical strategy. Writing a resume can be a daunting task, especially if you're not sure where to start. In "How to Write an Engineering Manager Resume," I will show you step-by-step how to make a resume that shows off your technical skills and your ability to lead. I cover the most important parts of a resume for an engineering manager, like work experience, education, skills, and accomplishments. I also offer tips and advice on how to show off your accomplishments and set yourself apart from other candidates, as well as what mistakes to avoid. Whether you're an experienced

engineering manager or just starting in the field, this book will help you create a resume that gets noticed and helps you land the job you want.
Vidal Graupera
December 2022
Interview Questions and Answers Stripe Press
The overwhelming majority of a software system's lifespan is spent in use, not in design or implementation. So, why does conventional wisdom insist that software engineers focus primarily on the design and development of large-scale computing systems? In this collection of essays and articles, key members of Google's Site Reliability Team explain how and why their commitment to the entire lifecycle has enabled the company to successfully build, deploy, monitor, and maintain some of the largest software systems in the world. You'll learn the principles and practices that enable Google engineers to make systems more scalable, reliable, and efficient—lessons directly applicable to your organization. This book is divided into four sections: Introduction—Learn what site reliability engineering is and why it differs from

conventional IT industry practices Principles—Examine the patterns, behaviors, and areas of concern that influence the work of a site reliability engineer (SRE) Practices—Understand the theory and practice of an SRE's day-to-day work: building and operating large distributed computing systems Management—Explore Google's best practices for training, communication, and meetings that your organization can use

Managing Humans

Pearson Education

Software startups make global headlines every day. As technology companies succeed and grow, so do their engineering departments. In your career, you'll may suddenly get the opportunity to lead teams: to become a manager. But this is often uncharted territory. How can you decide whether this career move is right for you? And if you do, what do you need to learn to succeed? Where do you start? How do you know that you're doing it right? What does "it" even mean? And isn't management a dirty word? This book will share the secrets you need to know to manage engineers successfully. Going from engineer to manager doesn't have to be intimidating. Engineers can be managers, and fantastic

ones at that. Cast aside the rhetoric and focus on practical, hands-on techniques and tools. You'll become an effective and supportive team leader that your staff will look up to. Start with your transition to being a manager and see how that compares to being an engineer. Learn how to better organize information, feel productive, and delegate, but not micromanage. Discover how to manage your own boss, hire and fire, do performance and salary reviews, and build a great team. You'll also learn the psychology: how to ship while keeping staff happy, coach and mentor, deal with deadline pressure, handle sensitive information, and navigate workplace politics. Consider your whole department. How can you work with other teams to ensure best practice? How do you help form guilds and committees and communicate effectively? How can you create career tracks for individual contributors and managers? How can you support flexible and remote working? How can you improve diversity in the industry through your own actions? This book will show you how. Great managers can make the world a better place. Join us.

Site Reliability Engineering

Pragmatic Bookshelf

At most technology companies, you'll reach Senior Software Engineer, the career level

for software engineers, in five to eight years. At that career level, you'll no longer be required to work towards the next pro? motion, and being promoted beyond it is exceptional rather than ex? pected. At that point your career path will branch, and you have to decide between remaining at your current level, continuing down the path of technical excellence to become a Staff Engineer, or switching into engineering management. Of course, the specific titles vary by company, and you can replace "Senior Engineer" and "Staff Engineer" with whatever titles your company prefers.Over the past few years we've seen a flurry of books unlocking the en? gineering management career path, like Camille Fournier's The Man? ager's Path, Julie Zhuo's The Making of a Manager, Lara Hogan's Re? silient Management and my own, An Elegant Puzzle. The manage? ment career isn't an easy one, but increasingly there

are maps avail? able for navigating it.On the other hand, the transition into Staff Engineer, and its further evolutions like Principal and Distinguished Engineer, remains chal? lenging and undocumented. What are the skills you need to develop to reach Staff Engineer? Are technical abilities alone sufficient to reach and succeed in that role? How do most folks reach this role? What is your manager's role in helping you along the way? Will you enjoy being a Staff Engineer or you will toil for years to achieve a role that doesn't suit you?"Staff Engineer: Leadership beyond the management track" is a pragmatic look at attaining and operate in these Staff-plus roles.

97 Things Every Engineering Manager Should Know "O'Reilly Media, Inc."

From the creator of the popular website Ask a Manager and New York’s work-advice columnist comes a witty, practical guide to 200 difficult professional conversations—featuring all-new advice! There’s a

reason Alison Green has been called “the Dear Abby of the work world.” Ten years as a workplace-advice columnist have taught her that people avoid awkward conversations in the office because they simply don’t know what to say. Thankfully, Green does—and in this incredibly helpful book, she tackles the tough discussions you may need to have during your career. You’ll learn what to say when • coworkers push their work on you—then take credit for it • you accidentally trash-talk someone in an email then hit “reply all” • you’re being micromanaged—or not being managed at all • you catch a colleague in a lie • your boss seems unhappy with your work • your cubemate’s loud speakerphone is making you homicidal • you got drunk at the holiday party Praise for Ask a Manager “A must-read for anyone who works . . . [Alison Green’s] advice boils down to the idea that you should be professional (even when others are not) and that communicating in a straightforward manner with candor and kindness will get you far, no matter where you work.”—Booklist (starred review) “The

author's friendly, warm, no-nonsense writing is a pleasure to read, and her advice can be widely applied to relationships in all areas of readers' lives. Ideal for anyone new to the job market or new to management, or anyone hoping to improve their work experience."—Library Journal (starred review) "I am a huge fan of Alison Green's Ask a Manager column. This book is even better. It teaches us how to deal with many of the most vexing big and little problems in our workplaces—and to do so with grace, confidence, and a sense of humor."—Robert Sutton, Stanford professor and author of The No Asshole Rule and The Asshole Survival Guide "Ask a Manager is the ultimate playbook for navigating the traditional workforce in a diplomatic but firm way."—Erin Lowry, author of Broke Millennial: Stop Scraping By and Get Your Financial Life Together

Developer Hegemony

Apress

Focusing on basic skills and tips for career enhancement, Engineer Your Own Success is a guide to improving efficiency and performance in any engineering field. It imparts

valuable organization tips, communication advice, networking tactics, and practical assistance for preparing for the PE exam—every necessary skill for success. Authored by a highly renowned career coach, this book is a battle plan for climbing the rungs of any engineering ladder.

The Complete Engineering Manager

Apress

Regarding the controversial and thought-provoking assessments in this handbook, many software professionals might disagree with the authors, but all will embrace the debate. Glass identifies many of the key problems hampering success in this field. Each fact is supported by insightful discussion and detailed references.