

Software Engineering Manager Job Description

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Effective Methods for Software Engineering Pragmatic Bookshelf
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

An Elegant Puzzle Prentice Hall
Software is important because it is used by a great many people in companies and institutions. This book presents engineering methods for designing and building software. Based on the author's experience in software engineering as a programmer in the defense and aerospace industries, this book explains how to ensure a software that is programmed operates according to its requirements. It also shows how to

develop, operate, and maintain software engineering capabilities by instilling an engineering discipline to support programming, design, builds, and delivery to customers. This book helps software engineers to: Understand the basic concepts, standards, and requirements of software engineering. Select the appropriate programming and design techniques. Effectively use software engineering tools and applications. Create specifications to comply with the software standards and requirements. Utilize various methods and techniques to identify defects. Manage changes to standards and requirements. Besides providing a technical view, this book discusses the moral and ethical responsibility of software engineers to ensure that the software they design and program does not cause serious problems. Software engineers tend to be concerned with the technical elegance of their software products and tools, whereas customers tend to be concerned only with whether a software product meets their needs and is easy and ready to use. This book looks at these two sides of software development and the challenges they present for software engineering. A critical understanding of software engineering empowers developers to choose the right methods for achieving effective results. Effective Methods for Software Engineering guides software programmers and developers to develop this critical understanding that is so crucial in today's software-dependent society.

Managing Humans Pearson Education
A human-centric guide to solving complex problems in engineering management, from sizing teams to handling technical debt. There's a saying that people don't leave companies, they leave managers. Management is a key part of any organization, yet the discipline is often self-taught and unstructured. Getting to the good solutions for complex management challenges can make the difference between fulfillment and frustration for teams--and, ultimately, between the success and failure of companies. Will Larson's An Elegant Puzzle focuses on the particular challenges of engineering management--from sizing teams to handling technical debt to performing succession

planning--and provides a path to the good solutions. Drawing from his experience at Digg, Uber, and Stripe, Larson has developed a thoughtful approach to engineering management for leaders of all levels at companies of all sizes. An Elegant Puzzle balances structured principles and human-centric thinking to help any leader create more effective and rewarding organizations for engineers to thrive in.

Computerworld Addison-Wesley
Lies crafted from good intentions. Death spreading through the stars. When the past returns to claim its due, will anyone survive? Earth Solar System, the Future. Abigail Olivaw is drowning in self-doubt. Hiding a devastating secret from the populace, the President of the Confederation of Planetary Explorers is horrified when hostile aliens arrive to announce they're putting humanity on trial. Forced to act as her species' defender in court, she struggles to hide her family's hidden multi-generational history that could lead to a sentence of genocide. Epsilon Eridani Colony. Joyce Green's passion for her job is dwarfed only by her love for her son. So when he dies from a mysterious virus that threatens the entire settlement, the Director of Colonization vows to stop at nothing to discover what triggered the deadly infection. And as she uncovers the truth bit by bit, her heartbreak fuels a berserk need for justice. Trapped by guilt over a mistake she didn't choose, Abigail falls into a tailspin when the invaders reveal the facts of her race's origins. And when Joyce unmask a traitor, the rest of her people would be lucky to only die from disease. With their paths on a collision course, will the women's consequence-laden decisions destroy humankind's last hope? Dark Nebula: Isolation is the gripping first book in the evocative Dark Nebula space opera series. If you like emotionally complex characters, chilling twists, and eye-opening takes on technology, then you'll love Sean Willson's sweeping epic. Buy Dark Nebula: Isolation to launch a defense against corruption today!

Engineering Manager's Guide Pragmatic Bookshelf
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?

Occupational Outlook Handbook
No Starch Press

For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce.

How to Become a Software Engineer
ManagersClub
Research and Educational

Leadership will prove to be an invaluable tool in re-thinking the way research is conducted in educational leadership and how public and private funding agencies should view research proposals which have potential to improve leadership practices in schools. The text will also become a key resource in teaching researchers to think more deeply about school leadership as they engage in dissertation research. Behind Closed Doors "O'Reilly Media, Inc."

Introducing The Effective Engineer--the only book designed specifically for today's software engineers, based on extensive interviews with engineering leaders at top tech companies, and packed with hundreds of techniques to accelerate your career.

The Software Craftsman Van Nostrand Reinhold Company
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

Network World Independently Published

InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.

Research and Educational Leadership Morgan Kaufmann
Become an Effective Software Engineering Manager Pragmatic Bookshelf
A Guide to the Project Management Body of Knowledge (PMBOK® Guide) - Seventh Edition and The Standard for Project Management (BRAZILIAN PORTUGUESE) "O'Reilly Media, Inc."

A practical guide to documentation and tracking for software engineers. This logically organized, readable reference explains the principles of quality management in software configuration, and their applications in the tracking and documentation of changes. **Fearless Salary Negotiation** R & L Education

"Mantle and Lichty have 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 are great blueprints for new and experienced software engineering managers alike." --Tom Conrad, CTO, Pandora "I wish I'd had this material available years ago. I see lots and lots of 'meat' in here that I'll use over and over again as I try to become a better manager. The writing style is right on, and I love the personal anecdotes." --Steve Johnson, VP, Custom Solutions, DigitalFish All too often, software development is deemed unmanageable. The news is filled with stories of projects that have run catastrophically over schedule and budget. Although adding some formal discipline to the development process has improved the situation, it has by no means solved the problem. How

can it be, with so much time and money spent to get software development under control, that it remains so unmanageable? In *Managing the Unmanageable: Rules, Tools, and Insights for Managing Software People and Teams*, Mickey W. Mantle and Ron Lichty answer that persistent question with a simple observation: You first must make programmers and software teams manageable. That is, you need to begin by understanding your people—how to hire them, motivate them, and lead them to develop and deliver great products. Drawing on their combined seventy years of software development and management experience, and highlighting the insights and wisdom of other successful managers, Mantle and Lichty provide the guidance you need to manage people and teams in order to deliver software successfully. Whether you are new to software management, or have already been working in that role, you will appreciate the real-world knowledge and practical tools packed into this guide.

InfoWorld Become an Effective Software Engineering Manager Great management is difficult to see as it occurs. It's possible to see the results of great management, but it's not easy to see how managers achieve those results. Great management happens in one-on-one meetings and with other managers---all in private. It's hard to learn management by example when you can't see it. You can learn to be a better manager---even a great manager---with this guide. You'll follow along as Sam, a manager just brought on board, learns the ropes and deals with his new team over the course of his first eight weeks on the job. From scheduling and managing resources to helping team members grow and prosper, you'll be there as Sam makes it happen. You'll find powerful tips covering: Delegating effectively Using feedback and goal-setting Developing influence Handling one-on-one meetings Coaching and mentoring Deciding what work to do---and what not to do ...and more. Full of tips and practical advice on the most important aspects of management, this is one of those books that can make a lasting and immediate

impact on your career.

Site Reliability Engineering Independently Published PMBOK® Guide is the go-to resource for project management practitioners. The project management profession has significantly evolved due to emerging technology, new approaches and rapid market changes. Reflecting this evolution, The Standard for Project Management enumerates 12 principles of project management and the PMBOK® Guide & Seventh Edition is structured around eight project performance domains. This edition is designed to address practitioners' current and future needs and to help them be more proactive, innovative and nimble in enabling desired project outcomes. This edition of the PMBOK® Guide: • Reflects the full range of development approaches (predictive, adaptive, hybrid, etc.); • Provides an entire section devoted to tailoring the development approach and processes; • Includes an expanded list of models, methods, and artifacts; • Focuses on not just delivering project outputs but also enabling outcomes; and • Integrates with PMI standards™ for information and standards application content based on project type, development approach, and industry sector. *Network World* "O'Reilly Media, Inc."

This text is about achieving usability in product user interface design through a process called Usability Engineering. The techniques presented include not only UI requirements analysis, but also organizational and managerial strategies.

US Black Engineer & IT Apress 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.

Managing the Unmanageable WideAsleep Publishing 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 fast-paced, 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 high-growth startups, experimenting with every aspect of the 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-to-understand recipe for creating your high-powered engineering team.

The Software Engineering Manager Interview Guide

O'Reilly Media

In this fourth edition of the bestselling business book *Managing Humans*, author Michael Lopp continues to draw leadership advice from some of the most important software companies of our modern age. Educational stories from companies across Silicon Valley such as Apple, Slack, Pinterest, Palantir, Netscape, and Borland detail the experiences of bright software engineers in an ever-changing industry. This revised edition of *Managing Humans* expands on the previous editions' explorations of management essentials including handling stress, building diverse teams, running inclusive meetings, and how to lead in times of crisis. The education of a great leader never stops, and Lopp applies crucial insights to help continue your never-ending leadership education. Whether it is approaching a myriad of engineering personalities or handling unexpected conflict, you will come away with wisdom to handle any team situation. The engineering culture of a company can determine the difference between a product's ultimate success or failure. *Managing Humans* is here to guide managers and aspiring managers into the intimidating world of people and their vastly different personalities. Handle conflict, infuse innovation into your approach, and be the most confident manager you can be after reading this book. What You Will Learn

Lead engineers Handle conflict Understand different engineering personalities Who This Book Is For Managers and would-be managers staring at the role of a manager wondering why they would ever leave the safe world of bits and bytes for the messy world

of managing humans.

Dark Nebula: Isolation CRC Press

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.