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The Passionate Programmer Creating A Remarkable Career In Software Development Pragmatic Life

Behind the screen of your phone, tablet, computer, or game console lies a secret language that makes it all work. Computer code has become as integral to our daily lives and reading and writing, even if you didn't know it. Now it's time to plug in and start creating the same technology you're consuming. Plus, it's one of the fastest growing

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industries in the world! This title covers everything from navigating the maze of computer languages to writing code for games to cyber security and artificial intelligence.

"Early in his software developer career, John Sonmez discovered that technical knowledge alone isn't enough to break through to the next income level - developers need "soft skills" like the ability to learn new technologies just in time, communicate clearly with management and consulting clients, negotiate a fair hourly rate, and unite teammates and coworkers in working toward a common goal. Today John helps more than 1.4 million programmers every year to increase their income by developing this

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unique blend of skills. Who Should Read This Book?

Entry-Level Developers - This book will show you how to ensure you have the technical skills your future boss is looking for, create a resume that leaps off a hiring manager's desk, and escape the "no work experience" trap.

Mid-Career Developers - You'll see how to find and fill in gaps in your technical knowledge, position yourself as the one team member your boss can't live without, and turn those dreaded annual reviews into chance to make an iron-clad case for your salary bump.

Senior Developers - This book will show you how to become a specialist who can command above-market wages, how building a name for

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yourself can make opportunities come to you, and how to decide whether consulting or entrepreneurship are paths you should pursue. Brand New Developers - In this book you'll discover what it's like to be a professional software developer, how to go from "I know some code" to possessing the skills to work on a development team, how to speed along your learning by avoiding common beginner traps, and how to decide whether you should invest in a programming degree or 'bootcamp.'--

Looking for a reliable way to learn how to program on your own, without being overwhelmed by confusing concepts? Head First Programming introduces the core

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concepts of writing computer programs -- variables, decisions, loops, functions, and objects -- which apply regardless of the programming language. This book offers concrete examples and exercises in the dynamic and versatile Python language to demonstrate and reinforce these concepts. Learn the basic tools to start writing the programs that interest you, and get a better understanding of what software can (and cannot) do. When you're finished, you'll have the necessary foundation to learn any programming language or tackle any software project you choose. With a focus on programming concepts, this book teaches you how to: Understand the core features of all

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programming languages, including: variables, statements, decisions, loops, expressions, and operators Reuse code with functions Use library code to save time and effort Select the best data structure to manage complex data Write programs that talk to the Web Share your data with other programs Write programs that test themselves and help you avoid embarrassing coding errors We think your time is too valuable to waste struggling with new concepts. Using the latest research in cognitive science and learning theory to craft a multi-sensory learning experience, Head First Programming uses a visually rich format designed for the way your brain works, not a text-heavy approach that

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puts you to sleep.

Printed in full color. To keep doing what you love, you need to maintain your own systems, not just the ones you write code for. Regular exercise and proper nutrition help you learn, remember, concentrate, and be creative--skills critical to doing your job well. Learn how to change your work habits, master exercises that make working at a computer more comfortable, and develop a plan to keep fit, healthy, and sharp for years to come. Small changes to your habits can improve your health--without getting in the way of your work. The Healthy Programmer gives you a daily plan of action that's incremental and iterative just

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like the software development processes you're used to. Every tip, trick, and best practice is backed up by the advice of doctors, scientists, therapists, nutritionists, and numerous fitness experts. We'll review the latest scientific research to understand how being healthy is good for your body and mind. You'll start by adding a small amount of simple activity to your day--no trips to the gym needed. You'll learn how to mitigate back pain, carpal tunnel syndrome, headaches, and many other common sources of pain. You'll also learn how to refactor your diet to properly fuel your body without gaining weight or feeling hungry. Then, you'll turn the exercises and activities into a

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pragmatic workout methodology that doesn't interfere with the demands of your job and may actually improve your cognitive skills. You'll also learn the secrets of prominent figures in the software community who turned their health around by making diet and exercise changes. Throughout, you'll track your progress with a "companion iPhone app". Finally, you'll learn how to make your healthy lifestyle pragmatic, attainable, and fun. If you're going to live well, you should enjoy it. Disclaimer This book is intended only as an informative guide for those wishing to know more about health issues. In no way is this book intended to replace, countermand, or conflict with the advice given to

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you by your own healthcare provider including Physician, Nurse Practitioner, Physician Assistant, Registered Dietician, and other licensed professionals. Keep in mind that results vary from person to person. This book is not intended as a substitute for medical or nutritional advice from a healthcare provider or dietician. Some people have a medical history and/or condition and/or nutritional requirements that warrant individualized recommendations and, in some cases, medications and healthcare surveillance. Do not start, stop, or change medication and dietary recommendations without professional medical and/or Registered Dietician advice. A healthcare provider

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should be consulted if you are on medication or if there are any symptoms that may require diagnosis or medical attention. Do not change your diet if you are ill, or on medication except under the supervision of a healthcare provider. Neither this, nor any other book or discussion forum is intended to take the place of personalized medical care or treatment provided by your healthcare provider. This book was current as of January, 2013 and as new information becomes available through research, experience, or changes to product contents, some of the data in this book may become invalid. You should seek the most up to date information on your medical care and

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treatment from your health care professional. The ultimate decision concerning care should be made between you and your healthcare provider. Information in this book is general and is offered with no guarantees on the part of the author, editor or The Pragmatic Programmers, LLC. The author, editors and publisher disclaim all liability in connection with the use of this book.

Being Geek

The Pragmatic Programmers' Guide

How Self-Selection Lets People Excel

The Software Developer's Career Handbook

Program Like the Ruby Pros

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Wolfenstein 3D

Rails Recipes

A tutorial and reference to the object-oriented programming language for beginning to experienced programmers, updated for version 1.8, describes the language's structure, syntax, and operation, and explains how to build applications. Original. (Intermediate)

Why This Book? You can learn the most popular frameworks, use the best programming languages, and work at the biggest tech companies, but if you cultivate bad habits, it will be hard for you to become a top

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developer. This book doesn't offer a straight path or pre-defined formula of success. This book is a result of a quest. A quest to uncover what habits can be cultivated to become a better software engineer. "I wish I had access to this book while I was starting in the software industry. The information presented is not only logical, not only personal, but very well backed up by many expert opinions throughout the book. A must-read, for both beginners and experts alike." - Zachary Sohovich, Software Engineer at Nike

What Will You Read? How to keep up with all the new technologies What should you focus? Being a specialist or generalist? How to stay productive and not feel overwhelmed The importance of

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estimating tasks correctly How to approach new side project ideas And much more Who Should Read This Book? It doesn't matter if you're a Junior or Senior developer. It doesn't matter how experienced you are. This book can help you cultivate new habits or rethink existing behaviors. What's Inside? This is not a traditional book. You won't find the same format or structure that a regular book has. In fact, this book was designed to be as simple and objective as possible. You can follow the order of chapters, or you can read them individually. Everything is standalone and doesn't depend on previous knowledge. At the end of each chapter, you'll find a section marked as "Questions &

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Answers", where I interview senior developers and tech leads from various companies to understand how they got there. I went after tech giants such as Google, Amazon, Microsoft, and Adobe. Powerful startups such as GitHub, Spotify, Elastic, Segment, GoDaddy, and Shopify. All the way to established organizations such as Citibank, BlackBerry, and The New York Times. These people come from all over the world and have a pretty diverse background. From San Francisco to New York. From São Paulo to Montreal. From London to Stockholm. The idea is to present you not a one man's point of view, but a collection of insights on how to navigate your career. Who's The Author? Zeno Rocha is

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a Brazilian creator and programmer. He currently lives in Los Angeles, California, where he's the Chief Product Officer at Liferay Cloud. His lifelong appreciation for building software and sharing knowledge led him to speak in over 110 conferences worldwide. His passion for open source put him on the top 20 most active users on GitHub at age 22. Before moving to the US, Zeno developed multiple applications, mentored startups, and worked at major companies in Latin America, such as Globo and Petrobras.

The American IT job market is slowly coming apart at the seams, and it's all our fault. Most of us have been stumbling around letting our careers take us where they

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may, and now we're surprised when our companies are shipping our jobs overseas for a fraction of the price. It's time to take control of our careers, and in the process, learn to stay both relevant and employed. This book will show you how to take action to avoid becoming yet another casualty of offshoring.

Gives you the background, the skills and the hard-won wisdom to bypass the mistakes of those who don't prepare. Conventional wisdom has it that finding a job is simple: send some resumes, go on some interviews and take the offer that sounds best. But that's only the start!

The RSpec Book

Becoming a Better Programmer

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14 Habits of Highly Productive Developers

A First Course in Programming and Statistics

Soft Skills

What Real Programmers Do

Game Engine Black Book

A Handbook for People Who Care About Code

What others in the trenches say about The Pragmatic Programmer... “The cool thing about this book is that it’s great for keeping the programming process fresh. The book helps you to continue to grow and clearly comes from people who have been there.”

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—Kent Beck, author of Extreme Programming Explained: Embrace Change “I found this book to be a great mix of solid advice and wonderful analogies!” —Martin Fowler, author of Refactoring and UML Distilled “I would buy a copy, read it twice, then tell all my colleagues to run out and grab a copy. This is a book I would never loan because I would worry about it being lost.” —Kevin Ruland, Management Science, MSG-Logistics “The wisdom and practical experience of the authors is obvious. The topics presented are

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relevant and useful.... By far its greatest strength for me has been the outstanding analogies—tracer bullets, broken windows, and the fabulous helicopter-based explanation of the need for orthogonality, especially in a crisis situation. I have little doubt that this book will eventually become an excellent source of useful information for journeymen programmers and expert mentors alike.”

—John Lakos, author of Large-Scale C++ Software Design “This is the sort of book I will buy a dozen copies of when it comes out so I

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can give it to my clients.” —Eric Vought, Software Engineer “Most modern books on software development fail to cover the basics of what makes a great software developer, instead spending their time on syntax or technology where in reality the greatest leverage possible for any software team is in having talented developers who really know their craft well. An excellent book.” —Pete McBreen, Independent Consultant “Since reading this book, I have implemented many of the practical suggestions and tips it

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contains. Across the board, they have saved my company time and money while helping me get my job done quicker! This should be a desktop reference for everyone who works with code for a living.” —Jared Richardson, Senior Software Developer, iRenaissance, Inc. “I would like to see this issued to every new employee at my company....” —Chris Cleeland, Senior Software Engineer, Object Computing, Inc. “If I’m putting together a project, it’s the authors of this book that I want. . . . And failing that I’d settle for people

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who've read their book.” —Ward Cunningham
Straight from the programming trenches, The Pragmatic Programmer cuts through the increasing specialization and technicalities of modern software development to examine the core process--taking a requirement and producing working, maintainable code that delights its users. It covers topics ranging from personal responsibility and career development to architectural techniques for keeping your code flexible and easy to adapt and reuse. Read this book, and you'll learn

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how to Fight software rot; Avoid the trap of duplicating knowledge; Write flexible, dynamic, and adaptable code; Avoid programming by coincidence; Bullet-proof your code with contracts, assertions, and exceptions; Capture real requirements; Test ruthlessly and effectively; Delight your users; Build teams of pragmatic programmers; and Make your developments more precise with automation. Written as a series of self-contained sections and filled with entertaining anecdotes, thoughtful examples, and

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interesting analogies, The Pragmatic Programmer illustrates the best practices and major pitfalls of many different aspects of software development. Whether you're a new coder, an experienced programmer, or a manager responsible for software projects, use these lessons daily, and you'll quickly see improvements in personal productivity, accuracy, and job satisfaction. You'll learn skills and develop habits and attitudes that form the foundation for long-term success in your career. You'll become a Pragmatic

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New technologies are popping up every day. Convincing co-workers to adopt them is the hard part. Adobe software evangelist Ryan breaks down the patterns and types of resistance technologists face in many organizations.

Unlock the secrets to creating random mazes! Whether you're a game developer, an algorithm connoisseur, or simply in search of a new puzzle, you're about to level up. Learn algorithms to randomly generate mazes in a

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variety of shapes, sizes, and dimensions. Bend them into Moebius strips, fold them into cubes, and wrap them around spheres. Stretch them into other dimensions, squeeze them into arbitrary outlines, and tile them in a dizzying variety of ways. From twelve little algorithms, you'll discover a vast reservoir of ideas and inspiration. From video games to movies, mazes are ubiquitous. Explore a dozen algorithms for generating these puzzles randomly, from Binary Tree to Eller's, each copiously illustrated and accompanied by

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working implementations in Ruby. You'll learn their pros and cons, and how to choose the right one for the job. You'll start by learning six maze algorithms and transition from making mazes on paper to writing programs that generate and draw them. You'll be introduced to Dijkstra's algorithm and see how it can help solve, analyze, and visualize mazes. Part 2 shows you how to constrain your mazes to different shapes and outlines, such as text, circles, hex and triangle grids, and more. You'll learn techniques for culling

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dead-ends, and for making your passages weave over and under each other. Part 3 looks at six more algorithms, taking it all to the next level. You'll learn how to build your mazes in multiple dimensions, and even on curved surfaces. Through it all, you'll discover yourself brimming with ideas, the best medicine for programmer's block, burn-out, and the grayest of days. By the time you're done, you'll be energized and full of maze-related possibilities! What You Need: The example code requires version 2 of the Ruby

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programming language. Some examples depend on the ChunkyPNG library to generate PNG images, and one chapter uses POV-Ray version 3.7 to render 3D graphics.

The Book of R is a comprehensive, beginner-friendly guide to R, the world's most popular programming language for statistical analysis. Even if you have no programming experience and little more than a grounding in the basics of mathematics, you'll find everything you need to begin using R effectively for statistical analysis. You'll start with the basics, like how

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to handle data and write simple programs, before moving on to more advanced topics, like producing statistical summaries of your data and performing statistical tests and modeling. You'll even learn how to create impressive data visualizations with R's basic graphics tools and contributed packages, like ggplot2 and ggvis, as well as interactive 3D visualizations using the rgl package. Dozens of hands-on exercises (with downloadable solutions) take you from theory to practice, as you learn: -The fundamentals of programming

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in R, including how to write data frames, create functions, and use variables, statements, and loops -Statistical concepts like exploratory data analysis, probabilities, hypothesis tests, and regression modeling, and how to execute them in R -How to access R's thousands of functions, libraries, and data sets -How to draw valid and useful conclusions from your data -How to create publication-quality graphics of your results Combining detailed explanations with real-world examples and exercises, this book will

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provide you with a solid understanding of both statistics and the depth of R's functionality.

Make The Book of R your doorway into the growing world of data analysis.

Programming Ruby

Navigate Your Workplace, Cube Farm, or Startup

The Complete Software Developer's Career Guide

Learn the inner-secrets behind Kindle, Netflix, AWS, Apple, Facebook, and Google.

Hello, Startup

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Behaviour Driven Development with RSpec,
Cucumber, and Friends
GIS for Web Developers
Managing Risks, Reaping Rewards

It's your first day on the new job. You've got the programming chops, you're up on the latest tech, you're sitting at your workstation... now what? New Programmer's Survival Manual gives your career the jolt it needs to get going: essential industry skills to help you apply your raw programming talent and make a name for yourself. It's a no-holds-barred look at what really goes on in the

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office--and how to not only survive, but thrive in your first job and beyond. Programming at industry level requires new skills - you'll build programs that dwarf anything you've done on your own. This book introduces you to practices for working on large-scale, long-lived programs at a professional level of quality. You'll find out how to work efficiently with your current tools, and discover essential new tools. But the tools are only part of the story; you've got to get street-smart too. Succeeding in the corporate working environment requires its own savvy. You'll learn how to navigate

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the office, work with your teammates, and how to deal with other people outside of your department. You'll understand where you fit into the big picture and how you contribute to the company's success. You'll also get a candid look at the tougher aspects of the job: stress, conflict, and office politics. Finally, programming is a job you can do for the long haul. This book helps you look ahead to the years to come, and your future opportunities--either as a programmer or in another role you grow into. There's nothing quite like the satisfaction of shipping a product and knowing, "I built that." Whether

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you work on embedded systems or web-based applications, in trendy technologies or legacy systems, this book helps you get from raw skill to an accomplished professional. Anyone who develops software for a living needs a proven way to 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

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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

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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.

A guide to geographic information systems describes how to find GIS data on the Web, manipulate GIS data, store and retrieve data in geographically-enabled databases, and publish Web services using OGC interfaces. This book provides something far more

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valuable than either the cheerleading or the fear-mongering one hears about open source. The authors are Dan Woods, former CTO of TheStreet.com and a consultant and author of several books about IT, and Gautam Guliani, Director of Software Architecture at Kaplan Test Prep & Admissions. Each has used open source software for some 15 years at IT departments large and small. They have collected the wisdom of a host of experts from IT departments, open source communities, and software companies. Open Source for the Enterprise provides a top to bottom view not only of the technology, but of the skills

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required to manage it and the organizational issues that must be addressed.

The Unwritten Laws of Engineering

The Pragmatic Programmer

Open Source for the Enterprise

Get Fit, Feel Better, and Keep Coding

Rails 3 Edition

The Developer's Code

Get Started

Collective Wisdom from the Experts

For most software developers, coding is the fun part. The hard bits are dealing with clients, peers, and managers and staying productive, achieving financial security, keeping yourself in shape, and finding true love. This

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book is here to help. Soft Skills: The Software Developer's Life Manual is a guide to a well-rounded, satisfying life as a technology professional. In it, developer and life coach John Sonmez offers advice to developers on important subjects like career and productivity, personal finance and investing, and even fitness and relationships. Arranged as a collection of 71 short chapters, this fun listen invites you to dip in wherever you like. A "Taking Action" section at the end of each chapter tells you how to get quick results. Soft Skills will help make you a better programmer, a more valuable employee, and a happier, healthier person. People are happiest and most productive if they can choose what they work on and who they work with. Self-

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selecting teams give people that choice. Build well-designed and efficient teams to get the most out of your organization, with step-by-step instructions on how to set up teams quickly and efficiently. You'll create a process that works for you, whether you need to form teams from scratch, improve the design of existing teams, or are on the verge of a big team re-shuffle. Discover how New Zealand's biggest e-commerce company completely restructured their business through Self-Selection. In the process, find out how to create high-performing groups by letting people self-organize into small, cross-functional teams. Step-by-step guides, easy-to-follow diagrams, practical examples, checklists, and tools will enable you to run a Self-Selection process

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within your organization. If you're a manager who wants to structure your organization into small teams, you'll discover why Self-Selection is the fastest and safest way to do so. You'll prepare for and organize a Self-Selection event and make sure your Self-Selection participants and fellow managers are on board and ready. If you're a team member, you'll discover what it feels like to be part of a Self-Selection process and what the consequences are for your daily work. You'll learn how to influence your colleagues and bosses to be open to the idea of Self-Selection. You'll provide your manager with a plan for how to facilitate a Self-Selection event, and with evidence that the system works. If you're feeling the pain and chaos of adding new people to your organization, or just

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want to ensure that your teams have the right people with the right skills, Self-Selection will help you create the effective teams you need.

Languages may come and go, but the relational database endures. Learn how to use Ecto, the premier database library for Elixir, to connect your Elixir and Phoenix apps to databases. Get a firm handle on Ecto fundamentals with a module-by-module tour of the critical parts of Ecto. Then move on to more advanced topics and advice on best practices with a series of recipes that provide clear, step-by-step instructions on scenarios commonly encountered by app developers. Co-authored by the creator of Ecto, this title provides all the essentials you need to use Ecto effectively. Elixir and Phoenix are taking

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the application development world by storm, and Ecto, the database library that ships with Phoenix, is going right along with them. There are plenty of examples that show you the basics, but to use Ecto to its full potential, you need to learn the library from the ground up. This definitive guide starts with a tour of the core features of Ecto - repos, queries, schemas, changesets, transactions - gradually building your knowledge with tasks of ever-increasing complexity. Along the way, you'll be learning by doing - a sample application handles all the boilerplate so you can focus on getting Ecto into your fingers. Build on that core knowledge with a series of recipes featuring more advanced topics. Change your pooling strategy to maximize your database's efficiency.

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Use nested associations to handle complex table relationships. Add streams to handle large result sets with ease. Based on questions from Ecto users, these recipes cover the most common situations developers run into. Whether you're new to Ecto, or already have an app in production, this title will give you a deeper understanding of how Ecto works, and help make your database code cleaner and more efficient. What You Need: To follow along with the book, you should have Erlang/OTP 19+ and Elixir 1.4+ installed. The book will guide you through setting up a sample application that integrates Ecto.

As a software engineer, you recognize at some point that there's much more to your career than dealing with code.

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Is it time to become a manager? Tell your boss he's a jerk? Join that startup? Author Michael Lopp recalls his own make-or-break moments with Silicon Valley giants such as Apple, Netscape, and Symantec in Being Geek -- an insightful and entertaining book that will help you make better career decisions. With more than 40 standalone stories, Lopp walks through a complete job life cycle, starting with the job interview and ending with the realization that it might be time to find another gig. Many books teach you how to interview for a job or how to manage a project successfully, but only this book helps you handle the baffling circumstances you may encounter throughout your career. Decide what you're worth with the chapter on "The Business" Determine the

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nature of the miracle your CEO wants with "The Impossible" Give effective presentations with "How Not to Throw Up" Handle liars and people with devious agendas with "Managing Werewolves" Realize when you should be looking for a new gig with "The Itch"

The Passionate Programmer

Build better software with more intuitive, maintainable, scalable, and high-performance Ruby code

Code Your Own Twisty Little Passages

Pragmatic Thinking and Learning

The Self-Taught Programmer

A Programmer's Guide to Building Products, Technologies, and Teams

So, You Want to Be a Coder?

Download Ebook The Passionate Programmer Creating A Remarkable Career In Software Development Pragmatic Life ***Coder to Developer***

Success in today's IT environment requires you to view your career as a business endeavor. In this book, you'll learn how to become an entrepreneur, driving your career in the direction of your choosing. You'll learn how to build your software development career step by step, following the same path that you would follow if you were building, marketing, and selling a product. After all, your skills themselves are a product. The choices you make about which technologies to focus on and which business domains to master have at least as much impact on your success as your technical knowledge itself--don't let those choices be accidental. We'll walk through all aspects of the decision-making process, so you can ensure

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that you're investing your time and energy in the right areas. You'll develop a structured plan for keeping your mind engaged and your skills fresh. You'll learn how to assess your skills in terms of where they fit on the value chain, driving you away from commodity skills and toward those that are in high demand. Through a mix of high-level, thought-provoking essays and tactical "Act on It" sections, you will come away with concrete plans you can put into action immediately. You'll also get a chance to read the perspectives of several highly successful members of our industry from a variety of career paths. As with any product or service, if nobody knows what you're selling, nobody will buy. We'll walk through the often-neglected world of marketing, and you'll create a plan to

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market yourself both inside your company and to the industry in general. Above all, you'll see how you can set the direction of your career, leading to a more fulfilling and remarkable professional life.

It seems like there's never been as much widespread desire before to learn JS. But with a million blogs, books, and videos out there, just where do you start?The worldwide best selling "You Don't Know JS" book series is back for a 2nd edition: "You Don't Know JS Yet". All 6 books are brand new, rewritten to cover all sides of JS for 2020 and beyond."Get Started" prepares you for the journey ahead, first surveying the language then detailing how the rest of the You Don't Know JS Yet book series guides you to knowing JS more deeply.

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A New York Public Library Best Book of 2017 Perfect for aspiring coders everywhere, *Girl Code* is the story of two teenage tech phenoms who met at Girls Who Code summer camp, teamed up to create a viral video game, and ended up becoming world famous. The book also includes bonus content to help you start coding! Fans of funny and inspiring books like Maya Van Wagenen's *Popular* and Caroline Paul's *Gutsy Girl* will love hearing about Andrea "Andy" Gonzales and Sophie Houser's journey from average teens to powerhouses. Through the success of their video game, Andy and Sophie got unprecedented access to some of the biggest start-ups and tech companies, and now they're sharing what they've seen. Their video game and their commitment to

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inspiring young women have been covered by the Huffington Post, BuzzFeed, CNN, Teen Vogue, Jezebel, the Today show, and many more. Get ready for an inside look at the tech industry, the true power of coding, and some of the amazing women who are shaping the world. Andy and Sophie reveal not only what they've learned about opportunities in science and technology but also the true value of discovering your own voice and creativity. A Junior Library Guild selection A Children's Book Council Best STEM Trade Book for Students K-12

You're already a great coder, but awesome coding chops aren't always enough to get you through your toughest projects. You need these 50+ nuggets of wisdom. Veteran programmers:

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reinvigorate your passion for developing web applications. New programmers: here's the guidance you need to get started. With this book, you'll think about your job in new and enlightened ways. The Developer's Code isn't about the code you write, it's about the code you live by. There are no trite superlatives here. Packed with lessons learned from more than a decade of software development experience, author Ka Wai Cheung takes you through the programming profession from nearly every angle to uncover ways of sustaining a healthy connection with your work. You'll see how to stay productive even on the longest projects. You'll create a workflow that works with you, not against you. And you'll learn how to deal with clients whose goals don't align with your own. If you

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don't handle them just right, issues such as these can crush even the most seasoned, motivated developer. But with the right approach, you can transcend these common problems and become the professional developer you want to be. In more than 50 nuggets of wisdom, you'll learn: Why many traditional approaches to process and development roles in this industry are wrong - and how to sniff them out. Why you must always say "no" to the software pet project and open-ended timelines. How to incorporate code generation into your development process, and why its benefits go far beyond just faster code output. What to do when your client or end user disagrees with an approach you believe in. How to pay your knowledge forward to future generations of programmers through

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teaching and evangelism. If you're in this industry for the long run, you'll be coming back to this book again and again.

Metaprogramming Ruby 2

The Book of R

Creating Great Teams

The Software Developer's Life Manual

Build Database Apps in Elixir for Scalability and Performance

Refactor Your Wetware

The Definitive Guide to Programming Professionally

your journey to mastery, 20th Anniversary Edition

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Annotation Everyone in the Ruby world seems to be talking about metaprogramming--how you can use it to remove duplication in your code and write elegant, beautiful programs. Now you can get in on the action as well. This book describes metaprogramming as an essential component of Ruby. Once you understand the principles of Ruby, including the object model, scopes, and eigenclasses, you're on your way to applying metaprogramming both in your daily work and in your fun, after-hours projects. Learning metaprogramming doesn't have to be difficult or boring. By taking you on Monday-through-Friday workweek adventure with a

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pair of programmers, Paolo Perrotta helps make mastering the art of metaprogramming both straightforward and entertaining. The book is packed with: Pragmatic examples of metaprogramming in action, many of which come straight from popular libraries or frameworks, such as Rails. Programming challenges that let you experiment and play with some the most fun, "out-there" metaprogramming concepts. Metaprogramming "spells"--34 practical recipes and idioms that you can study and apply right now, to write code that is sure to impress. Whether you're a Ruby apprentice on the path to mastering the language or a

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Ruby wiz in search of new tips, this book is for you. What is the cloud? Discover the secrets of the cloud through simple explanations that use lots of pictures and lots of examples. Why learn about the cloud? It's the future. The cloud is the future of software, the future of computing, and the future of business. If you're not up on the cloud the future will move on without you. Don't miss out. Not a geek? Don't worry. I wrote this book for you! After reading Explain Cloud Like I'm 10, you will understand the cloud. That's a promise. How do I deliver on that promise? I'll let you in on a little secret: the cloud is not that hard to understand. It's just that

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nobody has taken the time to explain it properly. take time. I go slow. You'll learn step-by-step; one idea at a time. You'll learn something new no matter if you're a beginner, someone who knows a little and wants to know more, or someone thinking about a career change. In Explain Cloud Like I'm 10, you'll discover:

- ? How the cloud got its name. A more interesting story than you might think.
- ? An intuitive picture based definition of the cloud.
- ? What it means when someone says a service is in the cloud.
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Hint: it's not the technology. •? The good, the bad, and the ugly of cloud computing. •? How cloud computing changed how software is made—forever. •? Why Amazon AWS became so popular. Hint: it's not the technology. What happens when you press play on Netflix. •? Why Kindle is the perfect example of a cloud service. •? The radically different approaches Apple and Google take to the cloud. •? How Google Maps and Facebook Messenger excel as cloud applications. •? Cloud providers are engaging in a winner-take-all war to addict you to their ecosystems. •? Key ideas like: VM, serverless, container, IaaS, PaaS, SaaS, virtualization,

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caching, ISP, OpEx, CapEx, network, AMI, EC2, S3, CDN, elastic computing, datacenter, and cloud-native. And so much more. Sound like gobbledygook? Don't worry! It will all make sense. I've been a programmer and a writer for over 30 years. I've been in cloud computing since the beginning, and I'm here to help you on your journey to understand the cloud. Consider me your guide. I'll be with you every step of the way. Sound fun? Buy *Explain Cloud Like I'm 10* and let's get started learning about the cloud today! Elevate your Ruby skills to an advanced level by deepening your understanding of the design principles,

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best practices, and trade-offs involved in implementation approaches to future-proof your Ruby applications Key FeaturesLearn Ruby web application design principles and strategies for databases, security, and testing from Ruby committer Understand the design principles behind polished Ruby code and trade-offs between implementation approachesUse metaprogramming and DSLs to reduce the amount of code needed without decreasing maintainabilityBook Description Anyone striving to become an expert Ruby programmer needs be able to write maintainable applications. Polished Ruby Programming will help you get better at designing

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scalable and robust Ruby programs, so that no matter how big the codebase grows, maintaining it will be a breeze. This book takes you on a journey through implementation approaches for many common programming situations, the trade-offs inherent in each approach, and why you may choose to use different approaches in different situations. You'll start by refreshing Ruby fundamentals, such as correctly using core classes, class and method design, variable usage, error handling, and code formatting. Then you'll move on to higher-level programming principles, such as library design, use of metaprogramming and domain-

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specific languages, and refactoring. Finally, you'll learn principles specific to web application development, such as how to choose a database and web framework, and how to use advanced security features. By the end of Ruby programming book, you'll be a well rounded web developer with a deep understanding of Ruby. While most code examples and principles discussed in the book apply to all Ruby versions, some examples and principles are specific to Ruby 3.0, the latest release at the time of publication. What you will learn

- Use Ruby's core classes and design custom classes effectively
- Explore the principles behind variable usage and method argument

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choiceImplement advanced error handling approaches such as exponential backoffDesign extensible libraries and plugin systems in RubyUse metaprogramming and DSLs to avoid code redundancyImplement different approaches to testing and understand their trade-offsDiscover design patterns, refactoring, and optimization with RubyExplore database design principles and advanced web app securityWho this book is for This book is for Ruby programmers who are comfortable in coding with Ruby but want to advance their skills by mastering the deeper principles and best practices behind writing maintainable, scalable,

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optimized, and well-structured Ruby code. This book won't teach you the basics of Ruby – you'll need intermediate knowledge and practical experience before you can dive in.

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and documentation while also supporting thorough testing and quick fault isolation. Cucumber, RSpec's steadfast companion, supports Acceptance Test Driven Planning with business-facing, executable requirements documentation that helps to ensure that you are writing relevant software targeted at real business needs. The RSpec Book will introduce you to RSpec, Cucumber, and a number of other tools that make up the Ruby BDD family. Replete with tutorials and practical examples, the RSpec Book will help you get your BDD on, taking you from executable requirements to working software that is clean, well tested, well documented, flexible and highly maintainable.

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Andy Hunt wrote the first edition of this influential book in 1999 to help their clients create better software and rediscover the joy of coding. These lessons have helped a generation of programmers examine the very essence of software development, independent of any particular language, framework, or methodology, and the Pragmatic philosophy has spawned hundreds of books, screencasts, and audio books, as well as thousands of careers and success stories. Now, twenty years later, this new edition re-examines what it means to be a modern programmer. Topics range from personal responsibility and career development to architectural techniques for keeping your code flexible and easy to adapt and reuse. Read this book, and you'll learn how to: Fight software rot Learn continuously Avoid the trap

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Elm brings the safety and stability of functional programming to front-end development, making it one of the most popular new languages. Elm's functional nature and static typing means that run-time errors are nearly impossible, and it compiles to JavaScript for easy web deployment. This book helps you take advantage of this new language in your web

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involving HTTP requests for communication. Integrate your Elm applications with JavaScript so you can update legacy applications or take advantage of JavaScript resources. Elm also provides built-in tooling to alleviate the tooling creep that's so common in JavaScript. This book covers Elm's deployment and testing tools that ease development confusion. Dive into advanced concepts including creating single-page applications, and creating performance improvements. Elm expert Jeremy Fairbank brings his years of web development experience to teaching how to use Elm for front-end development. Your web UIs will be faster, safer, and easier to develop with Elm and this tutorial. What You Need: You will need the latest version of Elm, 0.19, along with a browser to run the examples in this book.

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Why People on Your Team Don't Act on Good Ideas, and how to Convince Them They Should

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How was Wolfenstein 3D made and what were the secrets of its speed? How did id Software manage to turn a machine designed to display static images for word processing and

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spreadsheet applications into the best gaming platform in the world, capable of running games at seventy frames per seconds? If you have ever asked yourself these questions, Game Engine Black Book is for you. This is an engineering book. You will not find much prose in here (the author's English is broken anyway.) Instead, this book has only bit of text and plenty of drawings attempting to describe in great detail the Wolfenstein 3D game engine and its hardware, the IBM PC with an Intel 386 CPU and a VGA graphic card. Game Engine Black Book details

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techniques such as raycasting, compiled scalars, deferred rendition, VGA Mode-Y, linear feedback shift register, fixed point arithmetic, pulse width modulation, runtime generated code, self-modifying code, and many others tricks. Open up to discover the architecture of the software which pioneered the First Person Shooter genre.

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design tool. You're well educated on how to work with software and hardware, but what about wetware--our own brains? Learning new skills and new technology is critical to your career, and it's all in your head. In this book by Andy Hunt, you'll learn how our brains are wired, and how to take advantage of your brain's architecture. You'll learn new tricks and tips to learn more, faster, and retain more of what you learn. You need a pragmatic approach to thinking and learning. You need to Refactor Your Wetware. Programmers have to learn constantly;

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not just the stereotypical new technologies, but also the problem domain of the application, the whims of the user community, the quirks of your teammates, the shifting sands of the industry, and the evolving characteristics of the project itself as it is built. We'll journey together through bits of cognitive and neuroscience, learning and behavioral theory. You'll see some surprising aspects of how our brains work, and how you can take advantage of the system to improve your own learning and thinking skills. In this book you'll learn how to: Use the Dreyfus Model

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of Skill Acquisition to become more expert
Leverage the architecture of the brain to
strengthen different thinking modes Avoid
common "known bugs" in your mind Learn more
deliberately and more effectively Manage
knowledge more efficiently

If you're passionate about programming and
want to get better at it, you've come to the right
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presents a collection of useful techniques and
approaches to the art and craft of programming
that will help boost your career and your well-

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being. The book's standalone chapters span the range of a software developer's life--dealing with code, learning the trade, and improving performance--with no language or industry bias.

Programming Elm

97 Things Every Programmer Should Know

And All I Got was this Lousy Book

The Ultimate Guide to a Career in Programming,

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Explain the Cloud Like I'm 10

This book is the "Hello, World" tutorial for building products, technologies, and teams in a startup environment. It's based on the experiences of the author, Yevgeniy (Jim) Brikman, as well as interviews with programmers from some of the most successful startups of the last decade, including Google, Facebook, LinkedIn, Twitter, GitHub, Stripe, Instagram, AdMob, Pinterest, and many others. Hello, Startup is a practical, how-to guide that consists of three parts: Products, Technologies, and Teams. Although at its core, this is a book for programmers, by programmers, only Part II (Technologies) is significantly technical, while the rest

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should be accessible to technical and non-technical audiences alike. If you're at all interested in startups—whether you're a programmer at the beginning of your career, a seasoned developer bored with large company politics, or a manager looking to motivate your engineers—this book is for you.

"Two thumbs up" —Gregory V. Wilson, Dr. Dobbs Journal (October 2004) No one can disparage the ability to write good code. At its highest levels, it is an art. But no one can confuse writing good code with developing good software. The difference—in terms of challenges, skills, and compensation—is immense. Coder to Developer helps you excel at the many non-coding tasks entailed, from start to finish, in just about any successful development project.

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What's more, it equips you with the mindset and self-assurance required to pull it all together, so that you see every piece of your work as part of a coherent process. Inside, you'll find plenty of technical guidance on such topics as: Choosing and using a source code control system Code generation tools--when and why Preventing bugs with unit testing Tracking, fixing, and learning from bugs Application activity logging Streamlining and systematizing the build process Traditional installations and alternative approaches To pull all of this together, the author has provided the source code for Download Tracker, a tool for organizing your collection of downloaded code, that's used for examples throughout this book. The code is provided in various states of completion, reflecting every stage of development, so

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that you can dig deep into the actual process of building software. But you'll also develop "softer" skills, in areas such as team management, open source collaboration, user and developer documentation, and intellectual property protection. If you want to become someone who can deliver not just good code but also a good product, this book is the place to start. If you must build successful software projects, it's essential reading.

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sound advice. With contributions from some of the most experienced and respected practitioners in the industry--including Michael Feathers, Pete Goodliffe, Diomidis Spinellis, Cay Horstmann, Verity Stob, and many more--this book contains practical knowledge and principles that you can apply to all kinds of projects. A few of the 97 things you should know: "Code in the Language of the Domain" by Dan North "Write Tests for People" by Gerard Meszaros "Convenience Is Not an -ility" by Gregor Hohpe "Know Your IDE" by Heinz Kabutz "A Message to the Future" by Linda Rising "The Boy Scout Rule" by Robert C. Martin (Uncle Bob) "Beware the Share" by Udi Dahan

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