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If you create, manage, operate, or
configure systems running in the
cloud, you're a cloud
engineer--even if you work as a
system administrator, software

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developer, data scientist, or site reliability engineer. With this book, professionals from around the world provide valuable insight into today's cloud engineering role. These concise articles explore the entire cloud computing experience,

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including fundamentals,
architecture, and migration. You'll
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operations and reliability, and

software development. And

examine networking, organizational

culture, and more. You're sure to

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Foundation," David Murray "Cloud
Engineering Is About Culture, Not
Containers," Holly Cummins

GraphQL in Action gives you the
tools to get comfortable with the
GraphQL language, build and
optimize a data API service, and

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use it in a front-end client
application. Summary Reduce
bandwidth demands on your APIs

by getting only the results you
need—all in a single request! The
GraphQL query language simplifies
interactions with web servers,

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enabling smarter API queries that can hugely improve the efficiency of data requests. In GraphQL in Action, you'll learn how to bring those benefits to your own APIs, giving your clients the power to ask for exactly what they need from

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your server, no more, no less.

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Practical and example-driven, this
book teaches everything you need
to get started with GraphQL—from
design principles and syntax right
through to performance
optimization. Purchase of the print

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book includes a free eBook in PDF,
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technology GraphQL APIs are fast,
efficient, and easy to maintain.
They reduce app latency and
server cost while boosting

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developer productivity. This powerful query layer offers precise control over API requests and returns, making apps faster and less prone to error. About the book GraphQL in Action gives you the tools to get comfortable with the

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GraphQL language, build and optimize a data API service, and use it in a front-end client application. By working through set up, security, and error handling you'll learn to create a complete GraphQL server. You'll also unlock

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easy ways to incorporate GraphQL
into your existing codebase so you
can build simple, scalable data
APIs. What's inside Define a
GraphQL schema for relational and
document databases Implement
GraphQL types using both the

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schema language and object
constructor methods Optimize
GraphQL resolvers with data
caching and batching Design
GraphQL fragments that match UI
components' data requirements
Consume GraphQL API queries,

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mutations, and subscriptions with
and without a GraphQL client
library About the reader For web
developers familiar with client-
server applications. About the
author Samer Buna has over 20
years of experience in software

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development including front-ends,
back-ends, API design, and
scalability. Table of Contents PART

1- EXPLORING GRAPHQL 1

Introduction to GraphQL 2

Exploring GraphQL APIs 3

Customizing and organizing

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Their Dog Wants An API, So
You Should Probably Learn
How To Build Them

GraphQL operations PART 2 -
BUILDING GRAPHQL APIs 4

- Designing a GraphQL schema 5
- Implementing schema resolvers 6
- Working with database models and relations 7
- Optimizing data fetching 8
- Implementing mutations PART 3 -

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USING GRAPHQL APIS 9 Using

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library 10 Using GraphQL APIs with
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This groundbreaking book provides
you with the skills and resources
necessary to build web applications

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for Twitter. Perfect for new and casual programmers intrigued by the world of microblogging, *Twitter API: Up and Running* carefully explains how each part of Twitter's API works, with detailed examples that show you how to assemble

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right to the heart of this technology.

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related application right after
finishing the book!"--The Lollicode
team, creators of Twitscoop

PHP is experiencing a renaissance,
though it may be difficult to tell with
all of the outdated PHP tutorials
online. With this practical guide,

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you'll learn how PHP has become
a full-featured, mature language
with object-orientation,

namespaces, and a growing
collection of reusable component
libraries. Author Josh
Lockhart—creator of PHP The Right

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Way, a popular initiative to
encourage PHP best
practices—reveals these new

language features in action. You'll
learn best practices for application
architecture and planning,
databases, security, testing,

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debugging, and deployment. If you have a basic understanding of PHP and want to bolster your skills, this is your book. Learn modern PHP features, such as namespaces, traits, generators, and closures. Discover how to find, use, and

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errors and exceptions, and more
Learn tools and techniques for
deploying, tuning, testing, and
profiling your PHP applications

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In OBJECT THINKING, esteemed
object technologist David West

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contends that the mindset makes
the programmer--not the tools and
techniques. Delving into the history,
philosophy, and even politics of
object-oriented programming, West
reveals how the best programmers
rely on analysis and

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conceptualization--on
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thinking--rather than formal process
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and methods. Both provocative and
pragmatic, this book gives form to
what's primarily been an oral
tradition among the field's
revolutionary thinkers--and it

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illustrates specific object-behavior practices that you can adopt for true object design and superior results. Gain an in-depth understanding of: Prerequisites and principles of object thinking. Object knowledge implicit in eXtreme

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for object development. Learn
viable techniques for: Decomposing
complex domains in terms of

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objects. Identifying object relationships, interactions, and constraints. Relating object behavior to internal structure and implementation design. Incorporating object thinking into XP and Agile practice.

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Why a book about logs? That's easy: the humble log is an abstraction that lies at the heart of many systems, from NoSQL databases to cryptocurrencies. Even though most engineers don't think much about them, this short

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book shows you why logs are
worthy of your attention. Based on
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his popular blog posts, LinkedIn
principal engineer Jay Kreps shows
you how logs work in distributed
systems, and then delivers practical
applications of these concepts in a

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variety of common uses—data integration, enterprise architecture, real-time stream processing, data system design, and abstract computing models. Go ahead and take the plunge with logs; you're going love them. Learn how logs

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are used for programmatic access
in databases and distributed
systems Discover solutions to the
huge data integration problem
when more data of more varieties
meet more systems Understand
why logs are at the heart of real-

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time stream processing Learn the
role of a log in the internals of
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online data systems How To Build Them
Explore how
Jay Kreps applies these ideas to
his own work on data infrastructure
systems at LinkedIn
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elegant Django design patterns and
modern best practices Key
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Features Explore aspects of Django
from Models and Views to testing
and deployment Understand the
nuances of web development such
as browser attack and data design

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Walk through various asynchronous tools such as Celery and Channels
Book Description Building secure and maintainable web applications requires comprehensive knowledge. The second edition of this book not only sheds light on

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Django, but also encapsulates
years of experience in the form of
design patterns and best practices.
Rather than sticking to GoF design
patterns, the book looks at higher-
level patterns. Using the latest
version of Django and Python,

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you'll learn about Channels and
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asyncio while building a solid
How To Build Them
conceptual background. The book
compares design choices to help
you make everyday decisions faster
in a rapidly changing environment.
You'll first learn about various

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architectural patterns, many of
which are used to build Django.
You'll start with building a fun
superhero project by gathering the
requirements, creating mockups,
and setting up the project. Through
project-guided examples, you'll

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explore the Model, View, templates,
workflows, and code reusability
techniques. In addition to this, you'll
learn practical Python coding
techniques in Django that'll enable
you to tackle problems related to
complex topics such as legacy

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coding, data modeling, and code
reusability. You'll discover API
design principles and best
practices, and understand the need
for asynchronous workflows. During
this journey, you'll study popular
Python code testing techniques in

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Django, various web security
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threats and their countermeasures,
How To Build Them
and the monitoring and
performance of your application.
What you will learn Make use of
common design patterns to help
you write better code Implement

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best practices and idioms in this rapidly evolving framework Deal with legacy code and debugging Use asynchronous tools such as Celery, Channels, and asyncio Use patterns while designing API interfaces with the Django REST

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Framework Reduce the
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maintenance burden with well-
tested, cleaner code Host, deploy,
and secure your Django projects
Who this book is for This book is for
you whether you're new to Django
or just want to learn its best

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practices. You do not have to be an expert in Django or Python. No prior knowledge of patterns is expected for reading this book but it would be helpful.

Offers six sample business models and thirty case studies to help build

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and monetize a business.
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applications, services,
and data. Well-designed
APIs are a joy to use;
poorly-designed APIs are
cumbersome, confusing,
and frustrating. The

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Design of Web APIs is a
practical, example
packed guide to crafting
extraordinary web APIs.
Author Arnaud Lauret
demonstrates fantastic
design principles and

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techniques you can apply
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Cracking Java Interview
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the main reasons for
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concepts and APIs to

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Algorithms, System
Design, SQL, and

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because they don't spend
time to learn the Core
Java concepts and
essential APIs and
packages like Java

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Collection Framework,
Multithreading, JVM
Internals, JDBC, Design
Patterns, and Object-
Oriented Programming.

This book aims to fill
that gap and introduce

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interview questions from
these topics. By going
through these questiosn
and topic you will not
only expand your
knowledge but also get

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face-to-face interviews,
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to answer the question
but also learn how to
drive Java interview in
your favor. This is the

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The popularity of REST in recent years has led to tremendous growth in almost-RESTful APIs that don't include many of the architecture's benefits. With this

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practical guide, you'll
learn what it takes to
design usable REST APIs

that evolve over time.

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that cross a variety of
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system: the World Wide

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Web. You'll explore the
concepts behind REST,
learn different

strategies for creating
hypermedia-based APIs,
and then put everything
together with a step-by-

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practices for using HTTP
in API implementations
Create Web APIs with the
JSON-LD standard and

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the CoAP protocol for
using REST in embedded
systems

Can your software sell
itself? Convention and

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the trillion-dollar
sales industry claim
that it's impossible for
your product to sell
itself. Yet successful
software businesses like
Slack, Dropbox,

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Atlassian, and HubSpot make millions selling to customers who never once reached out to a sales rep. In *Product-Led Growth: How to Build a Product That Sells*

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challenges the
traditional SaaS
marketing and sales
playbook and introduces
a completely new way to

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sell products. Bush
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reveals how your
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product--not expensive
sales teams--can be the
main vehicle to acquire,
convert, and retain
customers. In this step-

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by-step guide to Product-
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explains: Why you should
flip the traditional
sales process on its
head and turn your
product into a sales

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machine; How to decide whether your business should use a free trial, freemium, or hybrid model; How to turn free users into happy, paying customers. History tells

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us that "how" you sell
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is just as important as
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"what" you sell.

Blockbuster couldn't
compete with Netflix by
selling the same digital
content, and you need to

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decide "when" not "if"
you'll innovate on the
way you sell. Are you
going to be product-led?
Or will you be
disrupted, too?

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can cost a company millions of
dollars - but can be avoided with
simple changes to design and
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the best-selling industry standard
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*that run longer, with fewer
failures, and recover better when
bad things happen. New coverage
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and cloud-native architecture.
Stability antipatterns have grown
to include systemic problems in
large-scale systems. This is a*

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systems. If you're a software
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get alerts every night for the rest
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combination of case studies
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*lost reputation, lost time, lost
opportunity - and practical, down-
to-earth advice that was all
gained through painful
experience, this book helps you
avoid the pitfalls that cost
companies millions of dollars in
downtime and reputation. Eighty*

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***percent of project life-cycle cost
is in production, yet few books
address this topic. This updated
edition deals with the production
of today's systems - larger, more
complex, and heavily virtualized -
and includes information on
chaos engineering, the discipline***

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*of applying randomness and
deliberate stress to reveal
systematic problems. Build
systems that survive the real
world, avoid downtime,
implement zero-downtime
upgrades and continuous
delivery, and make cloud-native*

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ways to architect, design, and
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*About the author JJ Geewax is a
software engineer at Google,
focusing on Google Cloud
Platform, API design, and real-
time payment systems. He is also*

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How To Build Them

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of Contents PART 1***

***INTRODUCTION 1 Introduction
to APIs 2 Introduction to API
design patterns PART 2 DESIGN
PRINCIPLES 3 Naming 4
Resource scope and hierarchy 5***

Where To Download Build APIs
You Won't Hate: Everyone And

Data types and defaults PART 3

FUNDAMENTALS 6 Resource

identification 7 Standard

methods 8 Partial updates and

retrievals 9 Custom methods 10

Long-running operations 11

Rerunnable jobs PART 4

RESOURCE RELATIONSHIPS 12

Where To Download Build APIs
You Won't Hate: Everyone And
Their Dog Wants An API, So
**Singleton sub-resources 13 Cross
references 14 Association
resources 15 Add and remove
custom methods 16
Polymorphism PART 5
COLLECTIVE OPERATIONS 17
Copy and move 18 Batch
operations 19 Criteria-based**

Where To Download Build APIs
You Won't Hate: Everyone And
Their Dog Wants An API. So
deletion 20 Anonymous writes 21
Pagination 22 Filtering 23
Importing and exporting PART 6
SAFETY AND SECURITY 24
Versioning and compatibility 25
Soft deletion 26 Request
deduplication 27 Request
validation 28 Resource revisions

Where To Download Build APIs
You Won't Hate: Everyone And

**29 Request retrieval 30 Request
authentication**

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Hate Everyone and Their Dog
Wants an API, So You Should
Probably Learn How to Build
Them**

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explore tasks like setting up
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automation tool. It extends the
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are expressive, maintainable,**

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How To Build Them

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Author Benjamin Muschko is a
member of the Gradleware
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Gradle plugins. Table of
Contents PART 1**

Where To Download Build APIs
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Their Dog Wants An API, So
You Should Probably Learn
How To Build Them

INTRODUCING GRADLE
Introduction to project
automation Next-generation
builds with Gradle Building a
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PART 2 MASTERING THE
FUNDAMENTALS Build script

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builds Testing with Gradle
Extending Gradle Integration
and migration PART 3 FROM
BUILD TO DEPLOYMENT IDE
support and tooling Building**

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management and monitoring
Continuous integration
Artifact assembly and
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provisioning and deployment
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manage VMware platforms.
The VMware Infrastructure
Software Development Kit (VI
SDK) includes application**

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**programming interfaces (APIs)
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administrators to do just that.
Until now, there has been little
documentation for the APIs. In
VMware VI and vSphere SDK,
software architect Steve Jin**

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**demystifies the entire VMware
VI and new vSphere SDK and
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coverage of using the APIs to
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efficiently and cost-effectively.
Jin walks you through using**

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**the VI SDK and cloud-
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**working with VMware strategic
partners and enterprise
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presenting realistic samples
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**solutions. Jin demonstrates
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architecture with guidance for implementing various elements.

And you 'll get a set of recipes and practices for meeting practical, organizational, and cultural challenges to microservice adoption. Learn how microservices

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can help you drive business
objectives Examine the principles,
practices, and culture that define
microservice architectures Explore
a model for creating complex
systems and a design process for
building a microservice architecture

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Learn the fundamental design
concepts for individual
microservices Delve into the
operational elements of a
microservices architecture,
including containers and service
discovery Discover how to handle

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the challenges of introducing
microservice architecture in your
organization

As The Giving Tree turns fifty, this timeless classic is available for the first time ever in ebook format. This digital edition allows young readers

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and lifelong fans to continue the
legacy and love of a classic that will
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now reach an even wider audience.
"Once there was a tree...and she
loved a little boy." So begins a story
of unforgettable perception,
beautifully written and illustrated by

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the gifted and versatile Shel
Silverstein. This moving parable for
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all ages offers a touching
interpretation of the gift of giving
and a serene acceptance of
another's capacity to love in return.
Every day the boy would come to

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the tree to eat her apples, swing from her branches, or slide down her trunk...and the tree was happy. But as the boy grew older he began to want more from the tree, and the tree gave and gave and gave. This is a tender story, touched with

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sadness, aglow with consolation.
Shel Silverstein's incomparable
career as a bestselling children's
book author and illustrator began
with Lafcadio, the Lion Who Shot
Back. He is also the creator of
picture books including A Giraffe

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and a Half, Who Wants a Cheap
Rhinoceros?, The Missing Piece,
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The Missing Piece Meets the Big O,
and the perennial favorite The
Giving Tree, and of classic poetry
collections such as Where the
Sidewalk Ends, A Light in the Attic,

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Falling Up, Every Thing On It, Don't
You Should Probably Learn
Bump the Glump!, and Runny
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Babbit. And don't miss the other
Shel Silverstein ebooks, Where the
Sidewalk Ends and A Light in the
Attic!

Using a web API to provide

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services to application developers
is one of the more satisfying
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endeavors that software engineers
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undertake. But building a popular
API with a thriving developer
ecosystem is also one of the most
challenging. With this practical

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guide, developers, architects, and
tech leads will learn how to
navigate complex decisions for
designing, scaling, marketing, and
evolving interoperable APIs.
Authors Brenda Jin, Saurabh
Sahni, and Amir Shevat explain API

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design theory and provide hands-on exercises for building your web API and managing its operation in production. You ' ll also learn how to build and maintain a following of app developers. This book includes expert advice, worksheets,

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checklists, and case studies from
companies including Slack, Stripe,
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Oracle, and GitHub. Get an
overview of request-response and
event-driven API design paradigms
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an API that meets the needs of
your users Use a template to create
an API design process Scale your
web API to support a growing
number of API calls and use cases
Regularly adapt the API to reflect
changes to your product or

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business Provide developer
resources that include API
documentation, samples, and tools
Annotation Over the past 10 years,
distributed systems have become
more fine-grained. From the large
multi-million line long monolithic

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applications, we are now seeing the benefits of smaller self-contained services. Rather than heavy-weight, hard to change Service Oriented Architectures, we are now seeing systems consisting of collaborating microservices. Easier to change,

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deploy, and if required retire,
organizations which are in the right
position to take advantage of them
are yielding significant benefits.

This book takes an holistic view of
the things you need to be cognizant
of in order to pull this off. It covers

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just enough understanding of
technology, architecture, operations
and organization to show you how
to move towards finer-grained
systems.

Microservice Architecture
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with the Twitter API
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Learning Essential Core Java
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How To Build Them
Services for a Changing World

*** Allen Holub is a
highly regarded
instructor for the
University of**

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**California, Berkeley,
Extension. He has taught
since 1982 on various
topics, including Object-
Oriented Analysis and
Design, Java, C++, C.
Holub will use this book**

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in his Berkeley
Extension classes. *

Holub is a regular
presenter at the
Software Development
conferences and is
Contributing Editor for

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the online magazine
JavaWorld, for whom he
writes the Java Toolbox.
He also wrote the OO
Design Process column
for IBM DeveloperWorks.
* This book is not time-

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**sensitive. It is an
extremely well-thought
out approach to learning
design patterns, with
Java as the example
platform, but the
concepts presented are**

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not limited to just Java
programmers. This is a
complement to the
Addison-Wesley seminal
"Design Patterns" book
by the "Gang of Four".
API development is

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becoming increasingly
common for server-side
developers thanks to the
rise of front-end
JavaScript frameworks,
iPhone applications, and
API-centric

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architectures. It might
seem like grabbing stuff
from a data source and
shoving it out as JSON
would be easy, but
surviving changes in
business logic, database

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**schema updates, new
features, or deprecated
endpoints can be a
nightmare. After finding
many of the existing
resources for API
development to be**

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**lacking, Phil learned a
lot of things the hard
way through years of
trial and error. This
book aims to condense
that experience, taking
examples and**

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**explanations further
than the trivial apples
and pears nonsense
tutorials often provide.
By passing on some best
practices and general
good advice you can hit**

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**the ground running with
API development,
combined with some
horror stories and how
they were overcome/avoid
ed/averted. This book
will discuss the theory**

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of designing and
building APIs in any
language or framework,
with this theory applied
in PHP-based examples.
Learn how to build
dynamic web applications

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**with Express, a key
component of the
Node/JavaScript
development stack. In
this hands-on guide,
author Ethan Brown
teaches you the**

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**fundamentals through the
development of a
fictional application
that exposes a public
website and a RESTful
API. You'll also learn
web architecture best**

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practices to help you
build single-page, multi-
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apps with Express.

Express strikes a
balance between a robust
framework and no

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framework at all,
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allowing you a free hand
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in your architecture
choices. With this book,
frontend and backend
engineers familiar with
JavaScript will discover

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new ways of looking at
web development. Create
webpage templating
system for rendering
dynamic data Dive into
request and response
objects, middleware, and

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**URL routing Simulate a
production environment
for testing and
development Focus on
persistence with
document databases,
particularly MongoDB**

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**Make your resources
available to other
programs with RESTful
APIs Build secure apps
with authentication,
authorization, and HTTPS
Integrate with social**

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**media, geolocation, and
other third-party
services Implement a
plan for launching and
maintaining your app
Learn critical debugging
skills This book covers**

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documents the rise of
the developer class, and
provides strategies for
companies to adapt to
the new technology

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**landscape. From
recruiting to retention,
it provides a playbook
to work more efficiently
and effectively with the
most important members
of your organization.**

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Microservices
Designing Fine-Grained
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**Modern Software
Engineering
Building Microservices
Machine Learning in
Action**

JSON is becoming the backbone for meaningful data interchange over the

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internet. This format is now supported by an entire ecosystem of standards, tools, and technologies for building truly elegant, useful, and efficient applications. With this hands-on guide, author and architect Tom Marrs shows you how to build enterprise-class applications and services by

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leveraging JSON tooling and
message/document design. JSON at
Work provides application architects
and developers with guidelines, best
practices, and use cases, along with
lots of real-world examples and code
samples. You'll start with a
comprehensive JSON overview,

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explore the JSON ecosystem, and then dive into JSON's use in the enterprise. Get acquainted with JSON basics and learn how to model JSON data Learn how to use JSON with Node.js, Ruby on Rails, and Java Structure JSON documents with JSON Schema to design and test APIs

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Search the contents of JSON
documents with JSON Search tools
Convert JSON documents to other
data formats with JSON Transform

tools Compare JSON-based
hypermedia formats, including HAL
and jsonapi Leverage MongoDB to
store and access JSON documents

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Use Apache Kafka to exchange JSON-based messages between services

Take advantage of JavaScript's power to build robust web-scale or enterprise applications that are easy to extend and maintain. By applying the design patterns outlined in this practical book, experienced JavaScript developers will

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learn how to write flexible and resilient
code that's easier—yes, easier—to
work with as your code base grows.

JavaScript may be the most essential
web programming language, but in the
real world, JavaScript applications
often break when you make changes.
With this book, author Eric Elliott

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shows you how to add client- and
server-side features to a large
JavaScript application without
negatively affecting the rest of your
code. Examine the anatomy of a large-
scale JavaScript application Build
modern web apps with the capabilities
of desktop applications Learn best

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practices for code organization,
modularity, and reuse Separate your
application into different layers of
responsibility Build efficient, self-
describing hypermedia APIs with
Node.js Test, integrate, and deploy
software updates in rapid cycles
Control resource access with user

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authentication and authorization

Expand your application's reach

through internationalization

Explore the concepts and tools you

need to discover the world of

microservices with various design

patterns Key Features Get to grips

with the microservice architecture and

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build enterprise-ready microservice
applications Learn design patterns and
the best practices while building a
microservice application Obtain hands-
on techniques and tools to create high-
performing microservices resilient to
possible fails Book Description
Microservices are a hot trend in the

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development world right now. Many enterprises have adopted this approach to achieve agility and the continuous delivery of applications to gain a competitive advantage. This book will take you through different design patterns at different stages of the microservice application

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strategy, asynchronism, CQRS and event sourcing, circuit breaker, and bulkheads. As you progress, you'll learn the design patterns of microservices. The book will guide you on where to use the perfect design pattern at the application development stage and how to break monolithic

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application into microservices. You will also be taken through the best practices and patterns involved while testing, securing, and deploying your microservice application. At the end of the book, you will easily be able to create interoperable microservices, which are testable and prepared for

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optimum performance. What you will learn How to break monolithic application into microservices Implement caching strategies, CQRS and event sourcing, and circuit breaker patterns Incorporate different microservice design patterns, such as shared data, aggregator, proxy, and

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chained Utilize consolidate testing
You Should Probably Learn
patterns such as integration, signature,
How To Build Them
and monkey tests Secure
microservices with JWT, API gateway,
and single sign on Deploy
microservices with continuous
integration or delivery, Blue-Green
deployment Who this book is for This

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book is for architects and senior developers who would like implement microservice design patterns in their enterprise application development.

The book assumes some prior programming knowledge.

Design scalable and robust RESTful web services with JAX-RS and Jersey

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extension APIs About This Book Get
to grips with the portable Java APIs
used for JSON processing Design
solutions to produce, consume, and
visualize RESTful web services using
WADL, RAML, and Swagger A step-by-
step guide packed with many real-life
use-cases to help you build efficient

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and secure RESTful web APIs in Java
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developer with a basic understanding
of the REST concepts but are new to
the idea of designing and developing
RESTful web services, this is the book
for you. As all the code samples for
the book are written in Java,

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proficiency in Java is a must. What
You Will Learn Introduce yourself to
the RESTful software architectural
style and the REST API design
principles Make use of the JSR 353
APIs and Jackson API for JSON
processing Build portable RESTful
web APIs, making use of the JAX-RS

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2.0 API Simplify API development
using the Jersey extension APIs

Secure your RESTful web services
with various authentication and
authorization mechanisms Get to grips
with the various metadata solutions to
describe, produce, and consume
RESTful web services Understand the

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design and coding guidelines to build
well-performing RESTful APIs See
how the role of RESTful web services
changes with emerging technologies
and trends In Detail REST
(REpresentational State Transfer) is a
simple yet powerful software
architecture style to create scalable

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web services and allow them to be simple, lightweight, and fast. The REST API uses HTTP and JSON, so that it can be used with many programming languages such as Ruby, Java, Python, and Scala. Its use in Java seems to be the most popular though, because of the API's

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reusability. This book is a guide to developing RESTful web services in Java using the popular RESTful framework APIs available today. You will begin with gaining an in-depth knowledge of the RESTful software architectural style and its relevance in modern applications. Further, you will

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simplify your web services. You will also see how to secure your services with various authentication mechanisms. You will get to grips with various solutions to describe, produce, consume, and visualize RESTful web services. Finally, you will see how to design your web services to equip

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them for the future technological
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advances, be it Cloud or mobile
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computing. By the end of this book,
you will be able to efficiently build
robust, scalable, and secure RESTful
web services, making use of the JAX-
RS and Jersey framework extensions.
Style and approach This book is

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written as a step-by-step guide to designing and developing robust RESTful web services. Each topic is explained in a simple and easy-to-understand manner with lots of real-life use-cases and their solutions.

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Aligning Principles, Practices, and
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The Giving Tree

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Gradle in Action

Use Data to Build a Better Startup

Faster

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One of the biggest challenges for organizations that have adopted microservice architecture is the lack of architectural, operational, and

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*organizational
standardization. After
splitting a monolithic
application or building
a microservice ecosystem
from scratch, many
engineers are left*

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wondering what's next.
You Should Probably Learn
How To Build Them
In this practical book,
author Susan Fowler
presents a set of
microservice standards
in depth, drawing from
her experience

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standardizing over a
thousand microservices
at Uber. You'll learn
how to design
microservices that are
stable, reliable,
scalable, fault

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*tolerant, performant,
monitored, documented,
and prepared for any
catastrophe. Explore
production-readiness
standards, including:
Stability and*

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*Reliability: develop,
deploy, introduce, and
deprecate microservices;
protect against
dependency failures
Scalability and
Performance: learn*

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essential components for
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achieving greater
microservice efficiency
Fault Tolerance and
Catastrophe
Preparedness: ensure
availability by actively

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*pushing microservices to
fail in real time*
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*Monitoring: learn how to
monitor, log, and
display key metrics;
establish alerting and
on-call procedures*

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Documentation and
Understanding: mitigate
tradeoffs that come with
microservice adoption,
including organizational
sprawl and technical
debt

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*This invaluable roadmap
for startup engineers
reveals how to
successfully handle web
application scalability
challenges to meet
increasing product and*

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*traffic demands. Web
Scalability for Startup
Engineers shows
engineers working at
startups and small
companies how to plan
and implement a*

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*comprehensive
scalability strategy. It
presents broad and
holistic view of
infrastructure and
architecture of a
scalable web*

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*application. Successful
startups often face the
challenge of
scalability, and the
core concepts driving a
scalable architecture
are language and*

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*platform agnostic. The
book covers scalability
of HTTP-based systems
(websites, REST APIs,
SaaS, and mobile
application backends),
starting with a high-*

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*level perspective before
taking a deep dive into
common challenges and
issues. This approach
builds a holistic view
of the problem, helping
you see the big picture,*

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*and then introduces
different technologies
and best practices for
solving the problem at
hand. The book is
enriched with the
author's real-world*

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*experience and expert
advice, saving you
precious time and effort
by learning from others'
mistakes and successes.
Language-agnostic
approach addresses*

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universally challenging
concepts in Web developm
ent/scalability—does not
require knowledge of a
particular language
Fills the gap for
engineers in startups

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*and smaller companies
who have limited means
for getting to the next
level in terms of
accomplishing
scalability Strategies
presented help to*

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*decrease time to market
and increase the
efficiency of web
applications*

*Summary Machine Learning
in Action is unique book
that blends the*

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*foundational theories of
machine learning with
the practical realities
of building tools for
everyday data analysis.
You'll use the flexible
Python programming*

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*language to build
programs that implement
algorithms for data
classification,
forecasting,
recommendations, and
higher-level features*

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*like summarization and
simplification. About
the Book A machine is
said to learn when its
performance improves
with experience.*

Learning requires

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*Their Dog Wants An API, So
You Should Probably Learn
How To Build Them*

*algorithms and programs
that capture data and
ferret out the
interesting or useful
patterns. Once the
specialized domain of
analysts and*

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*mathematicians, machine
learning is becoming a
skill needed by many.*

*Machine Learning in
Action is a clearly
written tutorial for
developers. It avoids*

Where To Download Build APIs You Won't Hate: Everyone And

*academic language and
takes you straight to
the techniques you'll*

*use in your day-to-day
work. Many (Python)
examples present the
core algorithms of*

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*statistical data
processing, data
analysis, and data
visualization in code
you can reuse. You'll
understand the concepts
and how they fit in with*

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*tactical tasks like
classification,
forecasting,
recommendations, and
higher-level features
like summarization and
simplification. Readers*

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*need no prior experience
with machine learning or
statistical processing.
Familiarity with Python
is helpful. Purchase of
the print book comes
with an offer of a free*

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*PDF, ePub, and Kindle
eBook from Manning. Also
available is all code
from the book. What's
Inside A no-nonsense
introduction Examples
showing common ML tasks*

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*Everyday data analysis
Implementing classic
algorithms like Apriori
and Adaboos Table of
Contents PART 1
CLASSIFICATION Machine
learning basics*

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*Classifying with k-
Nearest Neighbors
Splitting datasets one
feature at a time:
decision trees
Classifying with
probability theory:*

Where To Download Build APIs
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*naïve Bayes Logistic
regression Support
vector machines
Improving classification
with the AdaBoost meta
algorithm PART 2
FORECASTING NUMERIC*

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VALUES WITH REGRESSION

Predicting numeric

*values: regression Tree-
based regression PART 3*

UNSUPERVISED LEARNING

*Grouping unlabeled items
using k-means clustering*

Where To Download Build APIs
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*Association analysis
with the Apriori
algorithm Efficiently
finding frequent
itemsets with FP-growth*

PART 4 ADDITIONAL TOOLS

Using principal

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*component analysis to
simplify data*

*Simplifying data with
the singular value*

*decomposition Big data
and MapReduce*

Provides information on

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*writing a driver in
Linux, covering such
topics as character
devices, network
interfaces, driver
debugging, concurrency,
and interrupts.*

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Designing Web APIs
Building Standardized
Systems Across an
Engineering Organization