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# **Learning React: Functional Web Develo pment With React And Flux**

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fundamentals and  
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*Atencio is a*

*software engineer*

*and architect*

*building enterprise*

*applications in*

*Java, PHP, and*

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*1 THINK*

*FUNCTIONALLY*

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order JavaScript  
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PART 2 GET

FUNCTIONAL

Few data

structures, many  
operations Toward  
modular, reusable  
code Design

patterns against  
complexity PART 3

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public website and  
a RESTful API.*

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single-page, multi-  
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particularly  
MongoDB Make  
your resources  
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with social media,  
geolocation, and  
other third-party  
services  
Implement a plan  
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eveloper-  
experience or just  
smarter  
architecture, the  
patterns in  
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*specification*  
*in Java EE 7.*  
*By focusing on*  
*implementation*

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*demonstrates*

*how easy it is*

*to get started*

*with services*

*based on the*

*REST*

*architecture.*

*With the*

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*work and when*  
*to use them.*  
*The RESTEasy*  
*workbook that*  
*follows*  
*provides step-*  
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*examples,*  
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*JBoss RESTEasy*  
*implementation*  
*of JAX-RS 2.0.*

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*Examine the*

*design of a*

*distributed*

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interface for  
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order entry  
system Use the  
JAX-RS  
Response  
object to  
return complex  
responses to  
your client (R  
esponseBuilder*

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including  
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*09. June 2021*

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Hooks book,  
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React is for  
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*will learn. In  
"The Road to  
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of React.js  
with Hooks  
while building  
a full-blown  
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feature.*

*However, there  
is more than*

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The book dives

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*and advanced*

*feature implem*

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**quo of the**  
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problem first

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it throws in a  
few additional*

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React isn't,  
though, is beg  
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and  
approachable.  
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to help you  
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difficult  
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*Combine*

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such as Node,  
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webpack, and  
others Use  
Redux to make  
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to create UIs  
with this  
small  
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can deftly  
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changes on  
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websites  
without page  
reloads. Along  
the way,  
you'll learn  
how to work

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growing in  
use. By  
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layers by  
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*HTML, CSS and*

*JavaScript.*

*What You Will*

*Learn Set up*

*Webpack*

*configuration,*

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Development With  
React And Flux  
*as well as get  
the  
development  
server running*

*Learn basic*

*Firestore*

*configuration  
and deployment*

*Create routes,  
manage*

*multiple*

*components,*

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Development With  
Router v4 to  
manage the*

*flow of data*

*Use React life  
cycle methods  
to load data*

*Add a service  
worker to the  
app and learn  
how it works*

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Push

Notifications

Configure

Webpack to

split up the

JavaScript

bundle and

lazy load

component

files Learn

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*how to use the  
web Cache API  
to use your  
app offline*

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with Google's  
Lighthouse  
tool In Detail  
For years, the  
speed and  
power of web  
apps has*

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*lagged behind  
native  
applications.  
Progressive*

*Web Apps*

*(PWAs) aim to  
solve this by  
bridging the  
gap between  
the web apps  
and native  
apps,*

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*delivering a*

*host of*

*exciting*

*features. Simu*

*ltaneously,*

*React is fast*

*becoming the*

*go-to solution*

*for building*

*modern web*

*UIs, combining*

*ease of*

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*with*  
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*performance*  
React And Flux  
*and*

*capability.*  
*Using React*  
*alongside PWA*  
*technology*  
*will make it*  
*easy for you*  
*to build a*  
*fast,*



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React And Flux*  
*beautiful, and  
functional web  
app. After an  
introduction  
and brief  
overview of  
the goals of  
PWAs, the book  
moves on to  
setting up the  
application  
structure.*

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Webpack build  
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*From there, it covers the Webpack build process and the process of creating React components. You'll learn how to set up the backend database and authentication*

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*solution to  
communicate  
with Firebase  
and how to*

*work with  
React Router.  
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create and  
configure your  
web app  
manifest,  
making your*

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mobile  
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devices. Then  
you'll get  
introduced to  
service  
workers and  
see how they  
work as we  
configure the  
app to send

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*Messaging.*

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*explore the*

*App Shell*

*pattern, a key*

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*PWAs and look*

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*efficient*

*performance.*

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*how to add*

*offline*

*capabilities*

*to the app*

*with caching*

*and confirm*

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by auditing  
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your PWA with  
React And Flux  
Lighthouse.

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discover  
helper  
libraries and  
shortcuts that  
will help you  
save time and  
understand the

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development.  
Development With  
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is a step-by-  
step book,  
wherein, you  
will use the  
React  
framework to  
create a  
complete



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work in the  
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writing modern  
React code. No  
prior knowledge  
of React or  
functional  
JavaScript is  
necessary. With  
their learning  
road map,

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without page

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large-scale,

data-driven

websites.

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JavaScript Look  
under the hood  
to learn how  
React runs in  
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and reduce the  
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cationsIncorpor  
ate React Hooks  
to manage state  
and fetch



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with servers in  
mind  
Elixir and  
Phoenix are

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or a database.

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state and keep  
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Phoenix web  
interface  
without

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coupling it to  
the business  
logic. Open  
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powerful new  
techniques that  
will get you  
thinking about  
web development  
in  
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applications  
that scale. In  
this book,  
you'll build a  
web application  
in a radically  
different way,  
with a back end

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that holds  
application  
state. You'll  
use persistent  
Phoenix Channel  
connections  
instead of  
HTTP's request-  
response, and  
create the full  
application in  
distinct,  
decoupled

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layers. In Part  
1, start by  
building the  
business logic  
as a separate  
application,  
without  
Phoenix. Model  
the application  
domain with  
Elixir  
functions and  
simple data



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# Functional Web

# Development With

# React And Flux

structures. By keeping state in memory instead of a database, you can reduce latency and simplify your code. In Part 2, add in the GenServer Behaviour to make managing

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in-memory state  
a breeze.

Create a  
supervision  
tree to boost  
fault tolerance  
while  
separating  
error handling  
from business  
logic. Phoenix  
is a modern web  
framework you

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can layer on top of business logic while keeping the two completely decoupled. In Part 3, you'll do exactly that as you build a web interface with Phoenix. Bring in the application

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from Part 2 as  
a dependency to  
a new Phoenix  
project. Then

use ultra-  
scalable

Phoenix

Channels to

establish

persistent

connections

between the

stateful server

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and a stateful  
front-end

Functional Web

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client. You're

going to love

this way of

building web

apps! What You

Need: You'll

need a computer

that can run

Elixir version

1.5 or higher

and Phoenix 1.3

## Where To Download

or higher. Some familiarity with Elixir and Phoenix is recommended.

Explore the functional programming paradigm and the different techniques for developing better

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algorithms,  
writing more  
concise code,  
and performing  
seamless  
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this second  
edition updated  
to cover  
features like  
async functions  
and

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using  
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FP to enhance



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Description

Functional

programming is

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developing

software with

better

performance. It

helps you write

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book will  
assist you in  
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capabilities of

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and writing  
highly  
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and testable  
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apps using  
functional  
JavaScript.  
This second  
edition is

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improved to  
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cover features  
React And Flux  
such as  
transducers,  
lenses, prisms  
and various  
other concepts  
to help you  
write efficient  
programs. By  
focusing on  
functional

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programming,  
you'll not only  
start to write  
but also to  
test pure  
functions, and  
reduce side  
effects. The  
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specifically  
allows you to  
discover  
techniques for

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immutability,  
implement  
design

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work with data  
types for your  
application,  
before going on  
to learn  
functional  
reactive  
programming to  
handle complex  
events in your  
app. Finally,  
the book will

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take you  
through the  
design patterns  
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programming. By  
the end of this  
book, you'll  
have developed  
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skills and have  
gained



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programming  
techniques to  
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effectively.

What you will  
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JavaScript  
coding using  
function  
composition,

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pipelining,  
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coding to write  
clean  
JavaScript  
codeCreate more  
reliable code  
with closures

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problems using  
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Immutability Under  
stand advanced  
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concepts such

as lenses and

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access Who this

book is for

This book is

for JavaScript

developers who

want to enhance

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their  
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Frontend and  
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knowledge of  
ES2019 is  
required to  
grasp the  
concepts  
covered in the  
book easily.

Code

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collaboratively  
with GitHub

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step is to  
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working as a

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across the  
international  
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intermediate  
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Bootstrap and  
ReactJS, along  
with the

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integration of  
ReactJS  
components with  
ReactJS. You  
will understand  
the benefits of  
using JSX and  
the Redux  
architecture.

The server-side  
rendering of  
React will also  
be shown. All

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the concepts  
are explained  
by developing  
real-world

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be equipped to  
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responsive web  
applications  
using React-  
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Only a basic  
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concepts of  
functional

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with closures and  
immutable data  
Convert existing  
methods into pure  
functions, and  
loops into recursive  
methods Develop  
more powerful

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function  
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details Implement  
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chaining  
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functional*

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techniques where it  
makes the most  
sense In Detail*

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programming is a  
programming  
paradigm for  
developing  
software using  
functions. Learning  
to use functional  
programming is a*

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produce shorter,  
clearer, and  
testable programs.  
You'll delve into  
functional  
programming;  
including writing  
and testing pure  
functions, reducing



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*side-effects, and other features to make your applications functional in nature. Specifically, we'll explore techniques to simplify coding, apply recursion for loopless coding, learn ways to achieve*

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patterns, and work  
with data types. By  
the end of this  
book, you'll have  
developed the  
JavaScript skills  
you need to  
program functional  
applications with  
confidence. Style  
and approach This*

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industry for over 20  
years. Designed to  
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programmers,*

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compiles to highly  
readable*

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ReasonML, you get  
OCaml's powerful  
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programming  
features: a strong  
static type system  
with an excellent  
type inference  
engine, pattern*

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matching, and  
features for  
functional  
programming with  
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variables.

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allows flexibility  
with opt-in side  
effects, mutation,  
and object-oriented  
programming.*

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the author Richard  
Feldman is a

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language  
starting with  
the 'this'  
keyword.*

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values.*

*Functions can*

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book delves  
into various  
Hooks,*

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*including the  
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them, you will  
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capabilities of  
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Context APIs  
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About the  
Author Azat  
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Tech Fellow at  
Capital One  
with extensive  
experience  
using and  
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*About the Author Mark  
Thomas is an*

*experienced software  
engineer who works  
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