ROADMAP

Java Backend Development is One of the Highly In Demand and Top Paying Jobs in Tech.

Here's a complete roadmap to be a excellent Java Developer.

1. **Core Java**

First comes the fundamentals of Java Programming, here you will understand OOP concepts, conditional statements, collection frameworks, and many more.

https://bit.ly/427KQwp

2. **JDBC**

The JDBC API is a Java API that can access any kind of tabular data, especially data stored in a relational database.

https://bit.ly/3VEudGv

3. **SQL**

You will need good SQL knowledge to work with JDBC to write queries.

https://bit.ly/3B09x24

4. **JSP + Servlet**

Servlet is a server-side Java program module that handles client requests and implements the servlet interface.

JSP is a Java standard technology that developers use to write web pages for web applications.

https://bit.ly/41fOinn

5. **Spring Framework**

5.1. **Core Spring Framework**
https://bit.ly/419ayzs

By Rohit shukla

5.2. **Spring REST & Spring DATA**
https://bit.ly/414FWz6

5.3. **Spring Security**

Spring Security is the primary choice for implementing application-level security in Spring applications.

https://bit.ly/4287pkQ

6. **Hibernate Framework**

Hibernate is a Java framework that simplifies the development of Java application to interact with the database. It is an open source, lightweight, ORM (Object Relational Mapping) tool.

https://lnkd.in/d9MjsYxW

7. **Spring Boot**

Spring Boot is the ultimate framework and Makes Java Web Development less boilerplate, it can help you make production-ready applications in no time.

https://bit.ly/414P4Ut

8. **Basic DevOps**
https://bit.ly/44AKTCQ

8.1. **Learn to Use AWS & Deploy Java Apps**
https://bit.ly/3HJtL3K

8.2. **Learn Basic Docker:**
https://bit.ly/41bRRv5

https://bit.ly/3M0hLNR

8.3. **Learn Basic Kubernetes:**
https://bit.ly/3M2JGwU

8.4. **Deploy Spring Boot App on Kubernetes:**
https://bit.ly/3LZjwe7

9. **Basic of git and GitHub**
https://bit.ly/3LEL1Z3

10. **Java Microservices**
https://bit.ly/3nrcQwc

11. **Data structure and algorithms in Java**
https://bit.ly/42qgipy

12. **Learn the basics of Maven**
https://bit.ly/3AYVt8Z

 All Roadmap And Cheatsheet Details

Here is the list of PDF links for each of the RoadMaps.. !!!

 An Interesting feature of the RoadMaps is that once you open a specific RoadMap, you can click anywhere within it to view a brief description and resources.

 For example, if you select Frontend, upon opening, you can click on "Internet" to see more information....

Frontend RoadMap :- https://lnkd.in/dufSAtjw

- Backend RoadMap :- https://roadmap.sh/backend
- DevOps RoadMap :- https://roadmap.sh/devops
- Android RoadMap:- https://roadmap.sh/android
- PostgreSQL DBA :- https://lnkd.in/decYCrVu
- Computer Science RoadMap :- https://lnkd.in/dHqk6u_7
- QA RoadMap :- https://roadmap.sh/qa
- ASP.NET Core RoadMap :- https://lnkd.in/dHe5Ak8N
- Flutter RoadMap :- https://roadmap.sh/flutter
- Go RoadMap :- https://roadmap.sh/golang
- Software Design and Architecture RoadMap :- https://lnkd.in/dc76x79H
- Javascript RoadMap :- https://lnkd.in/dXiR3WGZ
- Node.js RoadMap :- https://roadmap.sh/nodejs

By Rohit shukla

- GraphQL RoadMap :- https://roadmap.sh/graphql
- Angular RoadMap :- https://roadmap.sh/angular
- React RoadMap :- https://roadmap.sh/react
- Vue RoadMap :- https://roadmap.sh/vue
- Design System RoadMap :- https://lnkd.in/d7XSprXc
- BlockChain RoadMap :- https://lnkd.in/dnEByr3t
- Java RoadMap:- https://roadmap.sh/java
- Spring Boot RoadMap :- https://lnkd.in/d4G3nPPA
- Python RoadMap :- https://roadmap.sh/python
- System Design RoadMap :- https://lnkd.in/dsP5v4Hz
- Frontend Prfeormance :- https://lnkd.in/dhE4p5uU

Here Is The List Of PDF Links For Each Of The Best Practices:

FREE Programming Cheat Sheets

- Python - http://quickref.me/python
- Git - https://lnkd.in/dPu4cngP
- JavaScript - https://lnkd.in/dXWF_J34
- Bash - http://devhints.io/bash
- SQL - https://lnkd.in/d7ibYVPd
- HTML - http://htmlcheatsheet.com
- CSS - https://lnkd.in/dup6enaV
- Sass - http://devhints.io/sass
- Tailwind - https://lnkd.in/dUh9G5n8
- React.js - https://lnkd.in/dPMpf3cx
- Vue.js - http://devhints.io/vue
- Angular - https://lnkd.in/dh-f-8VJ
- Vim - http://vim.rtorr.com
- Linux - https://lnkd.in/dmE3fWKx
- Docker - https://lnkd.in/d5F8mr2n

Roadmap for Java development (Generated by #ChatGPT)

1. **Learn the basics of Java**: Start by learning the basics of Java, including variables, data types, operators, control statements, classes, objects, and methods.

2. **Object-oriented programming**: Java is an object-oriented programming language, so understanding concepts like inheritance, polymorphism, encapsulation, and abstraction is critical.

By Rohit shukla

3. **Java frameworks**: Java has several popular frameworks, including Spring, Hibernate, and Struts. These frameworks provide a set of tools and features that make it easier to develop Java applications.

4. **Java APIs**: Java has an extensive set of APIs, including Java SE (Standard Edition), Java EE (Enterprise Edition), and Java ME (Micro Edition). Understanding these APIs and how to use them is essential for Java developers.

5. **Database connectivity**: Java applications often require database connectivity, so it's essential to learn how to use JDBC (Java Database Connectivity) and ORM (Object-Relational Mapping) frameworks like Hibernate.

6. **Web development**: Java is widely used for web development, and understanding web technologies like HTML, CSS, and JavaScript is critical. Additionally, learning web frameworks like Spring MVC and Struts can be useful.

7. **Build tools**: To manage the build process, Java developers use build tools like Maven and Gradle. Understanding these tools and how to use them is essential.

8. **Testing**: Java developers must write unit tests, integration tests, and acceptance tests to ensure the quality of their code. Understanding testing frameworks like JUnit, TestNG, and Mockito is critical.

9. **Continuous integration and delivery**: Continuous integration (CI) and continuous delivery (CD) are essential for software development. Understanding CI/CD tools like Jenkins, Travis CI, and CircleCI can be beneficial.

10. **Advanced topics**: After mastering the basics, there are many advanced topics to explore, including concurrency, multithreading, networking, security, and performance optimization.

RoadMap in Article (Text) format

Here is a general road map for becoming a Java full stack developer:

Java Programming Language:
Oracle Java Tutorials: https://lnkd.in/gWHamy_e
Java Tutorial for Beginners: https://lnkd.in/gz_bEk3i
Java Programming Basics: https://lnkd.in/gAxyAev4

Database Management:
SQL Tutorial: https://lnkd.in/gdTmatJZ

By Rohit shukla

Database Concepts: https://lnkd.in/gqtW3pfh

Front-End Technologies:
HTML Tutorial: https://lnkd.in/gEGQQi7b
CSS Tutorial: https://lnkd.in/g3cjMsnV
JavaScript Tutorial: https://lnkd.in/gcPd-t5b
React Tutorial: https://lnkd.in/gwgW_Qct
Angular Tutorial: https://angular.io/start

Back-End Technologies:
Servlets and JSP Tutorial: https://lnkd.in/grhT3K3M
Spring Framework Tutorial: https://spring.io/guides
Hibernate Tutorial: https://lnkd.in/gYrPDpTh

Web Services:
RESTful Web Services Tutorial: https://lnkd.in/gg68sVUJ
SOAP Web Services Tutorial: https://lnkd.in/gRiQXw9H

Build Projects:
Java Full Stack Projects: https://lnkd.in/gtMFSJME
Java Project Ideas: https://lnkd.in/ghbQVpvM
Java Mini Projects: https://lnkd.in/g_kWP9EE

DevOps:
Jenkins Tutorial: https://lnkd.in/gbZe8zyt
Docker Tutorial: https://lnkd.in/gbt-PBRb
Kubernetes Tutorial: https://lnkd.in/gm27Gewc

Cloud Platforms:
AWS Tutorial: https://lnkd.in/gUw-vMjF
Azure Tutorial: https://lnkd.in/gjfA77HU

Keep Learning:
Java Full Stack Development Roadmap: https://lnkd.in/gR54q7XD
Java Full Stack Development Blogs: https://lnkd.in/gY3YfyzS
Java Full Stack Development Podcasts: https://lnkd.in/gkp7fWR8

By Rohit shukla