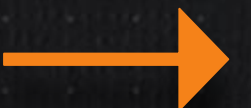# Java Full Stack Developer Roadmap

Vikas Rajput
@vikasrajputin

# 1. Core **Java**

→ **Core Java forms the fundamentals** of programming, it is based on Object-Oriented Programming.

→ Spend a reasonable amount of time learning it, as it will decide how good a Java programmer you will be in the future.

# 2. **JDBC** + **SQL**

→ As a part of Core Java, you will learn JDBC which will **help you understand how to connect your Java apps to Database**.

→ Alongside you can also **start learning the basics of SQL**, learn different types of Joins, INSERT, UPDATE, DELETE, SELECT statements, etc.

# 3. JSP + Servlet

→ **JSP + Servlet is the core** concept of Java Web Development, it will help you understand the fundamentals of Java Web Development.

→ Before Jumping into any Java web based framework, it's important to know the core concepts, JSP+Servlet can help you get that.

# 4. **Spring** Framework

→ It's the **most popular & trending framework** used to build modern web apps.

→ All the modern Java Webapps are using it, every organization working in java is using it hence you cannot skip this.

# 5. **JPA or Hibernate**

→ **Another framework helps you work with Databases easily** in your Java application.

→ You can do almost everything in DB from your Java app using this framework, no advanced SQL knowledge is required. 90% of the time you never have to write any native SQL query.

# 6. **HTML**, **CSS**, & **Javascript**

→ For building frontend, you can **use HTML, CSS, and JS** to build amazing web pages.

→ Nowadays, people are building REST APIs, so you can separate your backend and frontend.

→ This way you can use **React, Angular, Vue**, etc JS frameworks to build awesome UIs.

# 7. Servers

→ **Tomcat is a very popular** server to deploy Java-based applications.

→ You can learn to make deployments in your local machine.

→ Basic knowledge of servers always helps, don't skip this part.

→ Package your Webapp as Jar or War, and deploy it on tomcat.

# 8. **Tips**

## Backend

→ Learns **Basic DevOps**. Learn to deploy & host your apps on any cloud system.

→ Use **Git & Maven/Gradle**. Learn SQL.

→ Choose **Eclipse/IntelliJ** as your IDE for development on Java.

## Frontend

→ Use **VS Code as IDE for Frontend Dev**.

→ Learn npm, which can help you speed up your Frontend Dev.

@vikasrajputin

❤️ **Thanks** for reading !

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**Java** & **Backend** Development,
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**Vikas Rajput**
**@vikasrajputin**