

Roadmap to Becoming a Java Full Stack Developer

This document outlines a structured roadmap to becoming a Java Full Stack Developer, along with visual aids to better understand the journey.

Step 1: Foundational Skills

Before diving into Java and web development, it's crucial to build a strong foundation in programming and computer science concepts.

- **Core Java:** Understand Java syntax, object-oriented programming, data structures, and algorithms.
- Database Basics: Learn about relational databases and SQL.
- Version Control: Familiarize yourself with Git for version control.

Step 2: Front-End Technologies

With a solid foundation, you can move on to front-end technologies.

- HTML, CSS, and JavaScript: Learn the basics of web development.
- Front-End Frameworks: Explore frameworks like React, Angular, or Vue.js (optional but recommended).

Step 3: Back-End Technologies & Frameworks

Now you can delve into Java back-end development.

- Java Servlets and JSP: Understand the basics of server-side Java.
- **Spring Framework:** Learn Spring Boot, Spring MVC, and other modules.
- **RESTful APIs:** Learn how to build and consume RESTful web services.

Step 4: Database Management

Understanding database management is crucial for full stack development.

- **Relational Databases:** Deep dive into SQL and learn database design principles.
- **ORM Tools:** Learn about Object-Relational Mapping tools like Hibernate.

Step 5: Deployment & DevOps

Finally, learn how to deploy and maintain applications.

- Cloud Platforms: Learn about AWS, Azure, or Google Cloud.
- **CI/CD:** Understand Continuous Integration and Continuous Deployment.

Step	Description
1	Build Foundational Skills
2	Learn Front-End Technologies
3	Understand Back-End Technologies & Frameworks
4	Master Database Management
5	Explore Deployment & DevOps