This is Java specific roadmap and intentionally skips some backend topics.

Visit Backend Roadmap

Find the detailed version of this roadmap along with other similar roadmaps

roadmap.sh

Java

- Learn the Basics
  - Basic Syntax
  - Lifecycle of a Program
  - Data Types
  - Variables and Scopes
  - Type Casting
  - Strings and Methods
  - Math Operations
  - Arrays
  - Conditionals
  - Loops
  - Basics of OOP
- Object Oriented Programming
  - Basics of OOP
    - Classes and Objects
    - Attributes and Methods
    - Access Specifiers
    - Static Keyword
    - Final Keyword
    - Nested Classes
    - Packages
  - More about OOP
    - Object Lifecycle
    - Inheritance
    - Abstraction
    - Method Chaining
    - Encapsulation
    - Interfaces
    - Enums
    - Record
    - Method Overloading / Overriding
    - Initializer Block
    - Static vs Dynamic Binding
    - Pass by Value / Pass by Reference
  - Exception Handling
  - Lambda Expressions
  - Annotations
  - Modules
  - Optionals
- Dependency Injection
- I/O Operations
- File Operations
- Collections
  - Array vs ArrayList
  - Set
  - Map
  - Queue
  - Dequeue
  - Stack
  - Iterator
  - Generic Collections
- Concurrency
  - volatile keyword
  - Java Memory Model
  - Virtual Threads
  - Threads
- Cryptography
- Date and Time
- Networking
- Regular Expressions
- Functional Programming
  - High Order Functions
  - Functional Interfaces
  - Functional Composition
  - Stream API
- Build Tools
  - Maven
  - Gradle
  - Bazel
- Spring Boot is recommended v
- Web Frameworks
  - Spring (Spring Boot)
  - Quarkus
  - Javalin
  - Play Framework
- Database Access
  - JDBC
  - EBean
  - Hibernate
  - Spring Data JPA
- Logging Frameworks
  - Logback
  - Log4j2
  - SLF4J
  - TinyLog
- Testing
  - Unit Testing
    - JUnit
    - TestNG
  - Integration Testing
    - REST Assured
    - JMeter
  - Behavior Testing
    - Cucumber-JVM
    - Mocking > Mockito

Visit Backend path and see what you missed

Backend Roadmap