**Full Stack Developer Course Content:**

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| **Core Java Programming**  Software’s to be installed: Jdk 11, IntelliJ, Git |
| Java Introduction |
| JDK Setup, Setting Path Variable, JDK vs JRE vs JVM |
| IDE installation and setup - IntelliJ, VSS Code |
| Create "Hello World" program |
| Java Primitive Data Types |
| Operators in Java |
| Control Statements in Java |
| Arrays handling in Java |
| String, StringBuilder and StringBuilder |
| Enums, Packages, Access Modifiers |
| Practice Sample Programs |
| Interview Questions |
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| **OOPS** |
| Class and Object, Inheritance, properties, methods |
| Encapsulation |
| Polymorphism - overloading and overriding; |
| Abstract classes and Interfaces |
| Inner Classes, Anonymous Inner Class, Static Inner Class |
| Static vs Non Static methods, Final Keyword |
| Practice Sample Programs |
| Interview Questions |
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| **Exceptions Handling/Multithreading** |
| Exceptions, Create Custom Exceptions |
| Throwable, Exception, Error  Types of Exceptions |
| try, catch, finally, notify, notifyAll, sleep, wait, throw and throws |
| Multithreading - thread life cycle |
| Practice Sample Programs |
| Interview Questions |
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| **Collection Framework** |
| Collections framework Overview |
| ArrayList, Linked List, List, Set, Iterators |
| Maps, Queue, TreeMap, HashMap, HashTable |
| Lambda expression, Predicates |
| Practice Sample Programs |
| Interview Questions |
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| **Java File Handling** |
| Java I/O Package, File Class Basics |
| Character and Byte streams |
| Working with File streams |
| Using FileReader and FileWriter |
| Using FileInputStream and FileOutputStream |
| Example for creating new files, read files, process file data |
| Practice Sample Programs |
| Interview Questions |
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| **Debugging** |
| Getting started with debugging |
| Debugging, runtime variable value update |
| How to apply watch on variable(s) |
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| **Git Basics** |
| GIT overview |
| GIT features overview |
| Setting up GIT, how to use GIT tools in IntelliJ |
| Clone and import GIT project into IntelliJ |
| fork repo, commit code, rebase code, merge conflict resolution |
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| **Java Servlets, JSP, JSTL** |
| Overview Jsp and Servlets |
| Setup web project in IntelliJ |
| Tomcat Web Server Setup |
| Hello Servlets, Servlets life cycle |
| Hello JSP |
| JSP expressions, scriplets, and directives elements |
| include, forwards, redirect JSPs |
| overview MVC framework |
| Basic sample web application using MVC |
| Forms, Validation, Controllers, Beans, Method Types |
| Sessions, request, response, cookies |
| JSP JSTL Tags, Mutliparts, Files Uploads |
| Practice Sample Programs |
| Interview Questions |
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| **JDBC Programming** |
| Introduction JDBC |
| Drivers Types, How to connect drivers |
| Working with different databases, connections and examples |
| Practice Sample Programs |
| Interview Questions |
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| **Spring Framework** |
| Overview of Spring Framework |
| Inversion of Control, Dependency injection - setter, constructor |
| Autowire, Bean Lifecycle, |
| Setup Spring Project in IntelliJ |
| Bean scopes: singleton and prototype  Example Spring MVC application |
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| **Microservices Architecture** |
| REST web services overview |
| Resource based URIs |
| Status code, Rest Reponses |
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| **Spring Boot Framework** |
| Getting started with Spring Boot |
| Create simple project with spring.io |
| Spring Boot Web, JPA |
| Spring Boot Security |
| Spring Batch |
| Spring AOP |
| Sample projects using Spring Boot Frameworks |
| Practice Sample Programs |
| Interview Questions |
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| **Front End Technologies** |
| HTML5, CSS3, Bootstrap, JSON, JavaScript, jQuery |
| Introduction to TypeScript |
| Introduction to ReactJS |
| Sample Projects with ReactJS |
| Integrate with Spring Boot Rest Services |
| Interview Questions |
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| **Project Management Tools** |
| Jira, Rally, Asana, Confluence |
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| **Live project workshop with Full Stack development** |
| Create a employment portal using ReactJS, SpringBoot, MySQL |
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| **Deployment Tools** |
| AWS Cloud, Tomcat, Jenkins, XLR |
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| **Automation Frameworks** |
| Karate, Black belt, Junit, Selenium |
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| **Resume Preparation and tips** |
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| **Interview preparation and tips**  **Job Placements** |