# Kapil IT Skill HUB
### Your path to success



## Full Stack
# JAVA
## The Backbone of Modern Applications

### Full Stack Java CERTIFICATION TRAINING COURSE

www.kapilitshub.com

| | | |
|---|---|---|
| Java Demo Date | : | |
| Java Demo Time | : | |
| Java Duration | : | Months |
| Java Trainer | : | |
| Java Fee | : | Rs. |

# Our Expert Trainers

Hello! I'm Niyaz Having 15+ Years of Experience It's great to connect with you, and I'm here to help you on your journey into the world of Full Stack Java. I'm excited to share my knowledge and experience with you as you on this. Throughout my career, I've had the pleasure of guiding numerous students, and it's always incredible to see them set out on their Full Stack Java journeys.

## ● Training Highlights

▶ Providing individualized support and mentorship to expedite the learning process.

▶ A hands-on and comprehensive approach that ensures accessibility and empowers everyone to excel through practical learning and understanding.

▶ A curriculum crafted by industry experts and subject matter authorities, tailored to prepare students for the real-world demands of their chosen field.

▶ Bringing invaluable insights and expertise to the classroom through guest lectures by prominent professionals from top multinational corporations (MNCs).

## Program Pedagogy ●

**Instructor-LED Training**
Get Trained by top industry experts

**1:1 Personalized Learning**
Hands on exercises, project work, quizes & capstone projects

**Projects and Exercises**
Get real-world experience through projects

**Hackthons**
Get a sense of how real projects are built

## ● Key Highlights

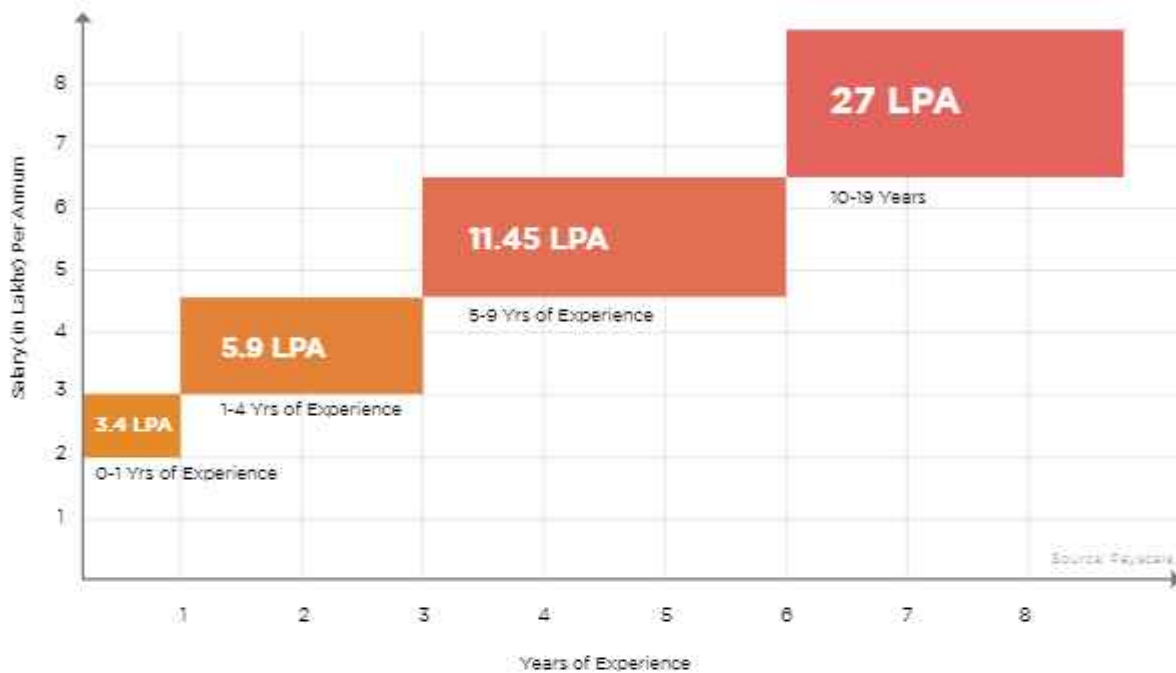| 75 Hrs Instructor-Led Training | 100% Job Assistance | Internship Opportunities |
|---|---|---|
| 90 Days Free Lab access | Kapil IT Skill Certification | Corporate Training Environment |

# Careers in Full Stack Development



Some of the job roles associated with Full Stack Development are Full Stack Developer, Front-end Engineer, Full Stack Engineer, Software Engineer, etc.

# Core Java

### a) Basic Introduction of Java
Programming Language
Modules In Java
History of Java
Internal Architecture of JVM
Naming Conventions
Identifiers
Reserved Words
Data-types
Types of variables
var-arg method
Main method
System.out.println()
Command line arguments
Java Source File Structure
Types of Blocks in Java
Type casting in Java
Fully Qualified Name
Import Statements
Control-Statements.
Arrays.

### b) OOPS
class
object
Data Hiding
Abstraction
Encapsulation
Is-A relationship
Has-A relationship
Types of inheritance
Method Overloading
Method Overriding
Method Hiding
Polymorphism
Constructors
this keyword
super keyword
Interfaces
Abstract classes
Wrapper classes
What is API?
Packages
Enum
Inner classes
String
StringBuffer
StringBuilder
StringTokenizer

### c) Exception Handling
Exception vs Error
Types of Terminations
Exceptions Hierarchies
try block
catch block
finally block
throw statement
throws statement
custom exceptions in java

### d) java.io package
File
FileWriter
FileReader
BufferedWriter
BufferedReader
PrintWriter
Various ways to provide inputs

### e) Collections
What is Collection?
List interface
Set Interface
Map interface
Types of cursors in Java

### f) Multi-Threading
Thread vs Process
Multi-Tasking
Multi-Threading
Ways to start a thread in java
Setting and Getting name of a thread
Thread priority
Various methods to prevent a thread
 from execution
Daemon Thread
Synchronization
Types of synchronization
Inter-Thread communication
DeadLock in Java

### g) Java 1.8 Features
Functional Interface
Lamda Expression
java.time package
default and static methods in interface
Stream API

# Oracle

### a) SQL

Types of Data
Introduction to Oracle
Tables, DBMS, RDBMS
DDL commands
DML commands
DRL commands
DRL commands with where clause
TCL commands
DCL commands
Operators in SQL
Group by , Having  and order by clause
Integrity constraints
Types of constraints
Joins
Sub Queries
Sequences
Synonyms
Pseudo columns
Indexes

### b) PL/SQL

Introduction to PL/SQL
Control statements in PL/SQL
LOOPS in PL/SQL
DML operations in PL/SQL
DRL operations on PL/SQL
Exception Handing
Cursors
Procedures
Functions
Packages
Triggers

# Advanced Java

### a) JDBC

Introduction to JDBC
JDBC Drivers Architectures
Files vs Database
Connection object
Types of Statement objects
Types ResultSet objects
Select query executions
Non-select query executions
Working with Date values
Working with LOB values
DatabaseMetadata
ResultSetMetaData
Batch Processing
Transaction Management

### b) Servlets

What is web application?
What is web resource program?
What is web container?
Sample web application creation
Types of url patterns
MIME Types
Types of Communications
Servlet Filters
Servlet Life cycle methods
ServletConfig object
ServletContext object
Stateless Behavior of web application
Session Tracking

### c) JSP

Introduction to JSP
JSP life cycle
JSP Tags
JSP to Database communication
JSP to Java Bean communication
JSP implicit objects
JDBC Connection pooling
JSP MVC Architecture
Working with IDE's

### d) Servers

Tomcat Server
Web Logic Server

e) **IDE's**
   Eclipse
   NetBeans

f) **Real tools**
   GIT/GITHUB
   Maven/Gradle
   Junit

g) **SDLC**
   What is SDLC
   Types of phases in SDLC

h) **Project**
   Module 1
   Module 2

# Java Framework: Spring Boot

a) **Introduction**
   Spring vs Spring Boot
   Spring Modules overview
   Spring MVC architecture
   What is Spring Boot
   Advantages of Spring Boot
   Spring Boot Architecture
   Spring Boot Application using Initializr
   Spring Boot Application using STS IDE.
   Spring Boot Annotations
   Properties file vs YAML file
   Spring Boot starters
   Spring MVC Application

b) **Spring Data JPA**
   Introduction
   Features of spring data JPA
   Working with H2 database
   Working with MySQL database
   Project Lombok
   CURD operations
   Exception Handling in Spring Boot
   RestTemplate
   WebClient
   Flyway Database Migration
   Spring Boot Caching
   Swagger
   Spring Boot Actuators
   Spring Security
   Authentication
   Authorization

# Java Framework: Spring Micro-services

a) **Introduction**
   - Monolithic Architecture
   - Micro Service Architecture
   - Creating micro services using spring boot
   - Micro service communication
   - Spring Cloud API Gateway
   - Service Registery (Eureka Server)
   - Hystrix in microservices
   - Loading Balancing using Ribbon.
   - Zipkin and Slueth
   - CloudConfig

b) **IDE's**
   - Spring Tool Suit (STS)
   - Intelllj

c) **Embedded Servers**
   - Tomcat, Jetty, Undertow

d) **Embedded Databases**
   - H2 , HSQL, Derby

e) **Tools**
   - POST MAN

# HTML-5

a) **Introduction**
   - What is HTML5?
   - Types of Browsers?
   - Types of Search Engines?
   - What is Web site?
   - What web page?
   - Simple HTML skeleton program
   - Comments in Java
   - HTML5 Meta Tags
   - HTML Basic Tags
   - Phrase Tags in Html5
   - HTML Colors
   - HTML Images
   - HTML Hyperlinks
   - List in HTML
   - HTML Tables
   - Block Elements vs Inline Elements
   - HTML forms
   - GET vs POST methodology
   - HTML datalist Tag
   - Frames
   - <iframe> tag
   - HTML Audio
   - HTML Video
   - Graphics in HTML
   - HTML Layouts

b) **Editors**
   - NotePad
   - NotePad++

# CSS-3

**a) Introduction**
   What is CSS?
   Types of CSS?
   CSS background property
   CSS borders
   CSS margins
   CSS paddings
   CSS ID selector
   CSS Class selector
   CSS Height and Width
   CSS overflow property
   CSS border-radius property
   CSS box-shadow property
   CSS float property
   CSS List property
   CSS tables
   CSS display property
   CSS transform property
   CSS transition property
   CSS position property

**b) CSS Design Work**
   CSS Design 1
   CSS Design 2
   CSS Design 3

**c) Editors**
   Sublime

# JavaScript

**a) Introduction**
   Java vs JavaScript
   Features of JavaScript
   Types of JavaScript
   Output statements in JavaScript
   JavaScript Engine
   JavaScript Comments
   JavaScript variables
   JavaScript LOOPS
   JavaScript Functions
   BOM (Browser Object Model)
   DOM (Document Object Model)
   JavaScript Date objects
   JavaScript Form Validation
   JavaScript Events
   JavaScript Regular Expression

**b) Editor**
   VSC (Visual Studio Code)

**c) Task**
   Task 1
   Task 2
   Task 3

# bootstrap-4

**a) Introduction**
   What is Bootstrap
   Advantages of Bootstrap
   Bootstrap colors
   Bootstrap borders
   Bootstrap backgrounds
   Bootstrap border-radius
   Bootstrap sizing
   Bootstrap spacing
   Bootstrap Margin
   Bootstrap Containers
   Bootstrap Grid System
   Bootstrap Tables
   Bootstrap Images
   Bootstrap Jumbotron
   Bootstrap Alerts
   Bootstrap Progress Bar
   Bootstrap Pagination
   Bootstrap List Groups
   Bootstrap Collapse plugin
   Bootstrap Glyphicons
   Bootstrap navbar
   Bootstrap Form layouts
   Bootstrap Carousel
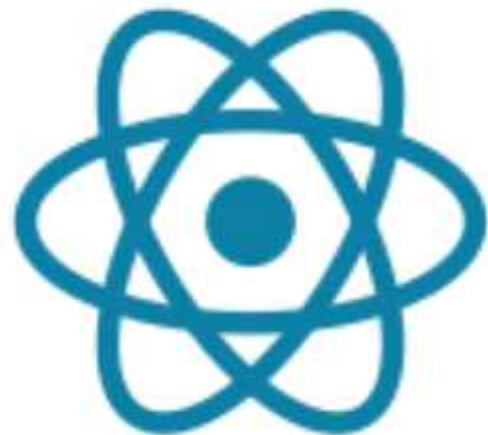
**b) Designs**
   Designs 1
   Designs 2
   Designs 3

## React/ReactJS

1. React Introduction
2. Advantages of React
3. JSX Introduction
4. Expressions in JSX
5. JSX elements
6. React virtual DOM
7. First application development in react
8. React project structure explanation
9. React Fragment
10. Components in React
11. Function component vs Class component
12. Props
13. State
14. Composing component
15. CSS in React
16. Type checking in props
17. ReactJS vs React Native
18. ReactJS vs AngularJS
19. Event Handing in React
20. Update state using event handling
21. Phases of components in react
22. Life cycle methods in react
23. Hooks introduction
24. Predefined hooks
25. Custom hooks
26. React Router
27. Lists in React
28. Key in React
29. Assets in React
30. Bootstrap in React
31. React Forms
32. Axios
33. ReactJS + NodeJS + MYSQL database integration

React Redux

# AWS - Amazon Web Services

1. Types of Applications
2. PC vs Server
3. Need of Cloud Infrastructure
4. What is Cloud Computing
5. What is AWS? And Why to choose AWS
6. How to create an account in AWS
7. What an Operating System and its types
8. Importance of Linux in Cloud Environment
9. How to create a Linux server in AWS
10. Putty vs Xshell
11. AWS EC2 Instance
12. Types of instances in AWS
13. AWS Tenancy
14. AWS Launch Template
15. AWS EBS volumes
16. Need of Elastic IP Address
17. AWS RDS service for JDBC Application?
18. How to deploy web application in AWS Elastic Bean Stalk
19. AWS S3 service
20. How to deploy spring boot application in AWS Cloud

# SOFT SKILLS

| | | |
|---|---|---|
| **Roots of Communication** | **LSRW** <br> **7 Cs of Communication** | **Mastering Helping Verb And Main Verb** |
| **Roots of Grammar** | **Parts of Speech** <br> **Sentence Structure Development** <br> **Tense Logic** <br> **Worksheet Sessions** | |
| **Speech Intelligence** | **Vocabulary Development** <br> **Usage of words** <br> **Group Discussions** <br> **JAMS** <br> **Debates** <br> **Public Speaking** | |
| **Personality Development** | **Imagination and Innovation Training** <br> **Centralized Brain Storming** <br> **Problem Solving Skill s** <br> **Decision Making** | |
| **Mangement Skills** | **Time Management** <br> **Team Building** <br> **Task Management** <br> **Leadership Skills** | |
| **Interview Skills** | **Employbility** <br> **Think like a Professional** <br> **Clearing HR Rounds** <br> **Salary Negotiation** <br> **Bond Negotiation** | |
| **Presentation Skills** | **Research Skills** <br> **Public Speaking** <br> **Visualization** <br> **White Board Presentation** <br> **Mastering Powerpoint** <br> **Content Creation** | **Dream Company Reading Skilll s Comprehension Skills** |
| **Personality Development** | **Mind Mapping** <br> **Role plays** <br> **Mock Interview on the Hot Seat** <br> **Listening Skills** <br> **Critical Thinking** <br> **Thought Analysis** <br> **SWOT Analysis** | |

# RECENTLY PLACED STUDENTS

**RAJ KUMAR**
Ray Business Technologies Pvt. Ltd

**CHARAN**
Itilite Technologies

**AMULYA**
Advent Global Solutions

**ABHISHEK**
GRCTOB Tech Labs Pvt Ltd

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