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# WHY VIRAJETECH?

## “OUR VISION”

To be the safest, most progressive Technology Provider, relentless in the pursuit of Client and employee excellence

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**VirajeTech's Placement Team boasts industry-leading success, aiding thousands in seamless transitions to JAVA careers.**



## EXPERT TRAINERS

**10+ year experienced and Industry Experts**  
Hire Faculty from Prestigious universities with deep research and coaching expertise

## COMPREHENSIVE

**30 hours & 700+ Learning Hrs.**  
Syllabus aligned with virajetech standards and rigorously updated to match with latest industry requirements



## JOB ASSISTANCE

**End to End job Support**  
Personalized resume and interview preparation support Job updates and connects

## REALTIME EXPERIENCE

**Projects and Internships**  
20 capstone projects and 1 client projects with active interaction  
Internship -developing POCs

# PROGRAM STRUCTURE

THE COURSE FOR BEGINNER'S PROFESSIONALS AND INTERMEDIATE LEARNERS IN THE FIELD OF

JAVA THIS IS A CAREER- ORIENTED PROGRAM, DESIGNED TO IMPART A STRONG FOUNDATION



- PRE COURSE SELF-STUDY
- HIGH QUALITY VIDEOS WITH
- EASY LEARNING APPROACH
- CERTIFICATIONS
- JOB READY PROGRAM
- LIVE TRAINING
- 30 HOUR A WEEK
- COMPREHENSIVE SYLLABUS
- HANDS-ON PROJECTS
- EXPERT TRAINERS AND MENTORS



# Java Programming in Microservices



## WHY JAVA?



A Java e-learning course is highly advantageous for the IT industry due to Java's widespread use and versatility. The course equips IT professionals with essential programming skills, as Java remains a cornerstone in developing robust and scalable applications. The online format provides flexibility, enabling learners to acquire Java proficiency at their own pace, a crucial aspect in the fast-paced IT environment. Java's cross-platform compatibility makes it indispensable for diverse IT projects, and the e-learning course ensures accessibility for a global audience, fostering a collaborative and interconnected IT community. Practical exercises within the course enhance hands-on experience, empowering IT professionals to apply Java effectively in real-world scenarios. Continuous updates in the e-learning curriculum keep learners abreast of Java's evolving features and industry best practices, making the course a valuable investment for career advancement in the IT sector.

# Java Programming in Microservices



## 1 Introduction to Microservices Architecture

- *Microservices Defined*
- *Characteristics and Principles*
- *Architectural Evolution from Monoliths*
- *Pros and Cons of Microservices Real-*
- *World Use Cases*
- *Microservices vs. Monolithic Architecture*
- *Scalability and Flexibility*
- *Decentralized Data Management*
- *Continuous Deployment*
- *Challenges in Microservices Adoption*

## 2 Building Microservices with Java

- *Popular Microservices Frameworks (e.g., Spring Boot)*
- *Microservices Design Patterns in Java*
- *Containerization with Docker*
- *Orchestration with Kubernetes*
- *Java Microservices Best Practices*
- *Development, Testing, and Deployment Strategies*
- *Microservices Communication Patterns*
- *Monitoring and Logging in Java Microservices*
- *Security Considerations in Java Microservices*



## 3 **Service Communication and API Gateway**

- *RESTful APIs in Microservices*
- *API Gateway Patterns*
- *Service Discovery and Registry*
- *Circuit Breaker Pattern Implementation*
- *Load Balancing Strategies*
- *Handling Asynchronous Communication*
- *Data Synchronization in Microservices*
- *Securing Microservices Communication*
- *Monitoring Service Communication*

## 4 **Data Management in Microservices**

- *Database per Microservice vs. Shared Database*
- *Event Sourcing and CQRS*
- *Distributed Data Management Strategies*
- *Implementing Data Consistency*
- *Data Partitioning and Sharding*
- *Polyglot Persistence*
- *Database Schema Evolution*
- *Data Versioning in Microservices*
- *Data Migrations and Rollbacks*

## 5 **Security in Microservices**

- *Authentication and Authorization*
- *Role-Based Access Control (RBAC)*
- *Securing Communication with SSL/TLS*
- *API Security and Rate Limiting*
- *Data Encryption in Microservices*
- *Token-Based Authentication*
- *Microservices Security Best Practices*
- *Handling Cross-Site Scripting (XSS) and Cross-Site Request Forgery (CSRF)*
- *Security Auditing and Monitoring*

## 6 Testing and Quality Assurance for Microservices

- *Unit Testing and Mocking Strategies*
- *Integration Testing in Microservices*
- *Contract Testing and Consumer-Driven Contracts*
- *Performance Testing and Load Balancing*
- *Automated Testing Tools for Microservices*
- *Continuous Integration and Deployment (CI/CD)*
- *Canary Releases and Blue-Green Deployment*
- *Chaos Engineering in Microservices*
- *Handling Rollback Strategies*

## 7 Microservices Monitoring and Logging

- *Logging Strategies in Microservices*
- *Distributed Tracing Implementation*
- *Log Aggregation and Analysis*
- *Implementing Health Checks*
- *Metrics and Performance Monitoring*
- *Alerts and Notifications in Microservices*
- *Debugging Microservices in Production*
- *Tools for Monitoring and Logging*
- *Continuous Improvement in Monitoring Strategies*

## 8 Microservices Deployment Strategies

- *Canary Release Strategies*
- *Feature Toggles and Rollouts*
- *Continuous Integration and Continuous Deployment (CI/CD)*
- *A/B Testing in Microservices*
- *Rollback Strategies and Versioning*
- *Microservices Deployment Automation*
- *Immutable Infrastructure Concepts*
- *Infrastructure as Code (IaC)*
- *Multi-Environment Deployments*

## 9 Scalability and Resilience in Microservices

- *Horizontal vs. Vertical Scaling*
- *Autoscaling Strategies*
- *Load Balancing in Microservices*
- *Resilience Patterns (Retry, Timeout, Circuit Breaker)*
- *Handling Failures and Fault Tolerance*
- *Graceful Degradation in Microservices*
- *Redundancy and High Availability*
- *Global Scalability Considerations*
- *Performance Optimization Strategies*

## 10 Microservices and DevOps Practices

- *Infrastructure as Code (IaC)*
- *Microservices Monitoring and Management*
- *Security Best Practices in DevOps*
- *Continuous Integration and Deployment (CI/CD)*
- *Container Orchestration with Kubernetes*
- *Microservices and Automated Testing*
- *Collaboration in Cross-Functional Teams*
- *Empowering Teams for Autonomy*
- *Addressing Cultural Challenges in Microservices Development*



## 11 Microservices Case Studies

- *Learned from Real-World Microservices Projects*
- *Overcoming Challenges in Microservices Adoption*
- *Industry Trends in Microservices*
- *Future Directions for Microservices*
- *Impact on Business Agility*
- *Real-World Scalability Challenges*
- *Microservices and Digital Transformation*
- *Microservices in Various Industries*
- *Insights from Microservices Thought Leaders*

## 12 Microservices and Event-Driven Architecture

- *Event-Driven Microservices Design*
- *Pub-Sub Patterns in Microservices*
- *Apache Kafka for Event Streaming*
- *Implementing Event Sourcing and CQRS*

## 13 Microservices Migration and Refactoring

- *Refactoring Monoliths into Microservices*
- *Microservices Anti-Patterns in Migration*
- *Continuous Improvement in Microservices*
- *Lessons Learned from Microservices Migrations*

# INTERNSHIP

Explore valuable internship opportunities with us! Join a dynamic and innovative environment, collaborate on real-world projects, and enhance your skills. We're seeking motivated individuals with a passion for learning and strong communication skills. This internship offers hands-on experience, exposure to industry best practices, and potential career pathways.



# VIRAJETECH EXPERTISE CLASS

python

aws

A

java

HTML

5

AI

node

spring

css

3

hadoop

docker

spring boot

Bootstrap

spark

ML

puppet

android

MySQL

JS

R

A

iOS

WS

Data Science

android

ios

WS

CodeIgniter

VIRAJETECH EXPERTISE CLASS



# JOB READY PROGRAM

## PROJECT MENTORING

100 Mentoring projects hoursLive inindustry



## PLACEMENT ASSISTANCE TEAM



## DOUBTS SESSIONS

Twice a week, Live doubts session from mentors and experts

## INTERVIEW QUESTIONS

Frequently asked interview questions course included



## JOB COUNSELLING

Mapping your profile to suitable job role

## RESUME SUPPORT

Personalized resume creation support from professionals



## ALUMINI CONNECT

Connect with successful Alumni to learn from experience

## PLACEMENT ASSISTANCE




Mercedes-Benz




# OUR LEARNER'S FEED BACK

## HIGHEST LEVEL OF CUSTOMER DELIGHT




**ruchi s**  
1 review · 3 photos  
★★★★★ 3 months ago

VirajeTech has been a game-changer for me. Their training courses have provided me with the skills I needed to excel in my career 4X. The instructors and Arjun sir are passionate about what they do, and it shows in their teaching. Hands on and practical way of teaching, I highly recommend VirajeTech to anyone looking to further their knowledge and skills




**Anoop G**  
6 reviews  
★★★★★ 3 months ago

Getting placed at Amency was a dream come true, and I owe a big thank you to VirajeTech for making it possible. The instructors were experts in their field, and they created a supportive learning environment. The hands-on approach and practical exercises made all the difference.




**Sachidanand Shahane**  
3 reviews  
★★★★★ 7 months ago

I am part of the AWS Associate master Class. The course was designed in a fashion that we are able to cover most of the content in a very short time. our trainer Kumar sir clarified any doubt we had and also pushed us to do the practicals which is really helpful in the learning process. Hi having vast knowledge and experience in Devops and Multi cloud platform(AWS,Azure,GCP),he provide the opportunity to get as much knowledge and guidance as possible. each session are interactive has real time use cases.




**Sayali Gawde**  
2 reviews  
★★★★★ a year ago

Thanks for the AWS tutoring by Virajtech. The best decision I have taken in my career so far. Instructor was very helpful and gave all possible solutions related to the problem which we faced in real time scenarios. This is what I have experienced in this course, a very practical and beneficial one.



**Piyush Poply**  
2 reviews  
★★★★★ 3 years ago

I am connected with this organization since its inception. This is one of the best places to learn, practice and grow your skills up to the standards of the industry. As in IT industry, maintaining your skills and updating yourself is the most important thing, we should never stop learning and this is exactly what this institute provides. The online classes are really great as well as the trainers.



**Harpreet Singh**  
12 reviews  
★★★★★ 7 months ago

Give very detailed explanation and also live teaching classes. Covering all latest topics which for sure help in getting jobs in today's market

# ADMISSIONS AND CONTACTS

ENQUIRE FOR DETAILED INFORMATION FOR ENROLLMENT

DURATION:35 HOURS

LEARNING : ONLINE MODE

b 1st floor, 64, 3rd Cross Rd, Electronics City Phase

1, Electronic City, Bengaluru, Karnataka 560100

PHN NO:8618501719



SELF STUDY

8 HRS/WEEK



++ INSTRUCTOR LED LIVE ONLINE LEARNING

8 HRS/WEEK



PROJECTS & ASSESSMENTS

4 HRS/WEEK

20 HOURS A WEEK COMMITMENT



**JAVA** *IS RATED AS* **THE TOP CAREER**

HIGHEST PAID – RECESSION PROOF – MILLIONS OF JOBS



TAKE YOUR FIRST STEP TOWARDS JAVA CAREER

**ENQUIRE NOW**

# THANK *you*



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E - Learning Platform