

**Java Full stack with Micro Services Master Program
Certification Course**

About Us

Welcome to **Yuva Sakthi Academy!**

We are committed to delivering high-quality education and creating a learning environment where students can thrive. With a focus on both academic and personal development, we aim to empower every learner who walks through our doors.

Our Mission

Our mission is to equip individuals with the knowledge, skills, and confidence to achieve their goals. We focus on holistic development, encouraging not just academic success but also personal growth and career readiness.

What We Offer

We provide expert-led training programs designed to meet the needs of school students, competitive exam aspirants, and skill-seekers. Our curriculum blends strong foundational learning with practical application, ensuring every student is career- and life-ready.

Our Impact

Over the years, Yuva Sakthi Academy has helped countless students unlock their potential and succeed in their chosen fields. Many of our alumni have gone on to excel in academics, careers, and life—all starting with the right guidance here.

Visit us at www.yuvasakthiacademy.com to learn more.



About Us – Java Fullstack with Microservices

Our **Java Fullstack with Microservices Course** at **Yuva Sakthi Academy** provides a complete roadmap to mastering fullstack development. Suitable for both beginners and experienced professionals, this course covers Java, Spring Boot, React, RESTful APIs, microservices architecture, and best practices for building scalable applications.

Engage in hands-on exercises using modern web technologies, cloud platforms, and CI/CD tools. Enhance your development skills and streamline application deployment by enrolling today!

Why Choose the Java Fullstack with Microservices Program from Yuva Sakthi Academy?



Industry-Leading Platform:

Gain practical experience with modern fullstack and microservices technologies. Learn to design scalable applications, develop RESTful APIs, implement microservices architecture, and integrate with CI/CD pipelines. Enroll today to advance your fullstack development skills!



Opportunity in Top MNCs:

Master Java Fullstack with Microservices through practical, hands-on training. Gain experience in building scalable applications, developing RESTful APIs, implementing microservices architecture, and deploying projects using CI/CD pipelines. Boost your career prospects at top MNCs by enrolling at Yuva Sakthi Academy today!



Lucrative Salary:

Become a fullstack and microservices expert with hands-on Java training. Gain skills in developing scalable applications, building RESTful APIs, implementing microservices architecture, and deploying projects with CI/CD integration 🌐. Enroll at Yuva Sakthi Academy today and elevate your career in software development! 💰🚀

Expert-Led Instruction:

Receive comprehensive training in Java Fullstack with Microservices, covering everything from core Java and front-end development to advanced microservices architecture. Gain hands-on experience in building scalable applications, designing RESTful APIs, and integrating projects with CI/CD pipelines. Elevate your fullstack development skills with guidance from industry experts.

Hands-On Experience:

Master Java Fullstack with practical exercises on building scalable applications, designing RESTful APIs, and implementing microservices architecture with CI/CD integration. Strengthen your development skills and accelerate your career—enroll today!

Comprehensive Curriculum:

Master essential Java Fullstack and Microservices skills, from core Java and front-end development to advanced microservices architecture and CI/CD integration. Gain hands-on experience to build robust, scalable applications and tackle real-world software development challenges.

Cutting-Edge Tools:

Leverage modern Java Fullstack and Microservices tools to excel in application development. Gain expertise in building scalable systems, implementing microservices architecture, and integrating with CI/CD pipelines to boost your career in software development.

Career Advancement:

Excel in fullstack development with our Java Fullstack with Microservices course. Master essential and advanced techniques, showcase your skills, and secure top positions with competitive salaries. Enroll today!

Flexible Learning:

Master Java Fullstack with Microservices through flexible, self-paced training. Fit fullstack development and microservices skills into your schedule and learn essential and advanced techniques at your convenience. Enroll today!

Java Fullstack with Microservices Training Tools

Backend Development Tools

- **Java (JDK)** – Core language for backend logic.
- **Spring Framework & Spring Boot** – For building microservices and REST APIs.
- **Maven / Gradle** – Build and dependency management tools.
- **Hibernate / JPA** – ORM frameworks for database interaction.
- **JUnit / TestNG** – Unit testing frameworks.
- **Postman / Swagger** – API testing and documentation.

Frontend Development Tools

- **HTML, CSS, JavaScript** – Core web technologies.
- **React / Angular / Vue.js** – Modern frontend frameworks for UI development.
- **Bootstrap / Material UI** – Styling and responsive design.

Database & Storage

- **MySQL / PostgreSQL** – Relational databases.
- **MongoDB** – NoSQL database for flexible data handling.
- **Redis / Memcached** – Caching solutions.

Microservices & Integration Tools

- **Spring Cloud** – For building scalable microservices.
- **Eureka / Consul** – Service discovery tools.
- **Ribbon / Feign** – Load balancing and service-to-service communication.
- **Kafka / RabbitMQ** – Messaging and event-driven microservices.
- **Docker** – Containerization of services.
- **Kubernetes** – Orchestration and deployment of microservices.

DevOps & CI/CD Tools

- **Git / GitHub / GitLab** – Version control.
- **Jenkins / GitLab CI / CircleCI** – Continuous integration and delivery.
- **SonarQube** – Code quality analysis.

Cloud & Deployment

- **AWS / Azure / GCP** – Cloud deployment, storage, and services.
- **Tomcat / Nginx** – Web servers for deployment.

Monitoring & Logging

- **ELK Stack (Elasticsearch, Logstash, Kibana)** – Log management and analytics.
- **Prometheus / Grafana** – Monitoring microservices and system metrics.

Top Microservice Testing Training Providers

1. CourseJet – Microservices Online Training

- Focus: Microservices testing strategies & tools

2. Verity Software – Certified API, REST & Microservices Tester

- Focus: API & microservices testing (REST/SOAP), hands-on tools

3. DevOpsSchool – Microservices Training & Certification

- Focus: Fundamentals, integration & testing (unit, integration tests)

4. Practical Microservices – Workshop for Java Developers

- Focus: Java microservices testing (unit, contract, end-to-end)

5. ACTE Training Institute – Microservices Online Training (India)

- Focus: Broad microservices program including testing in real-world projects

Who Should Pursue Microservice Training?

Java Developers

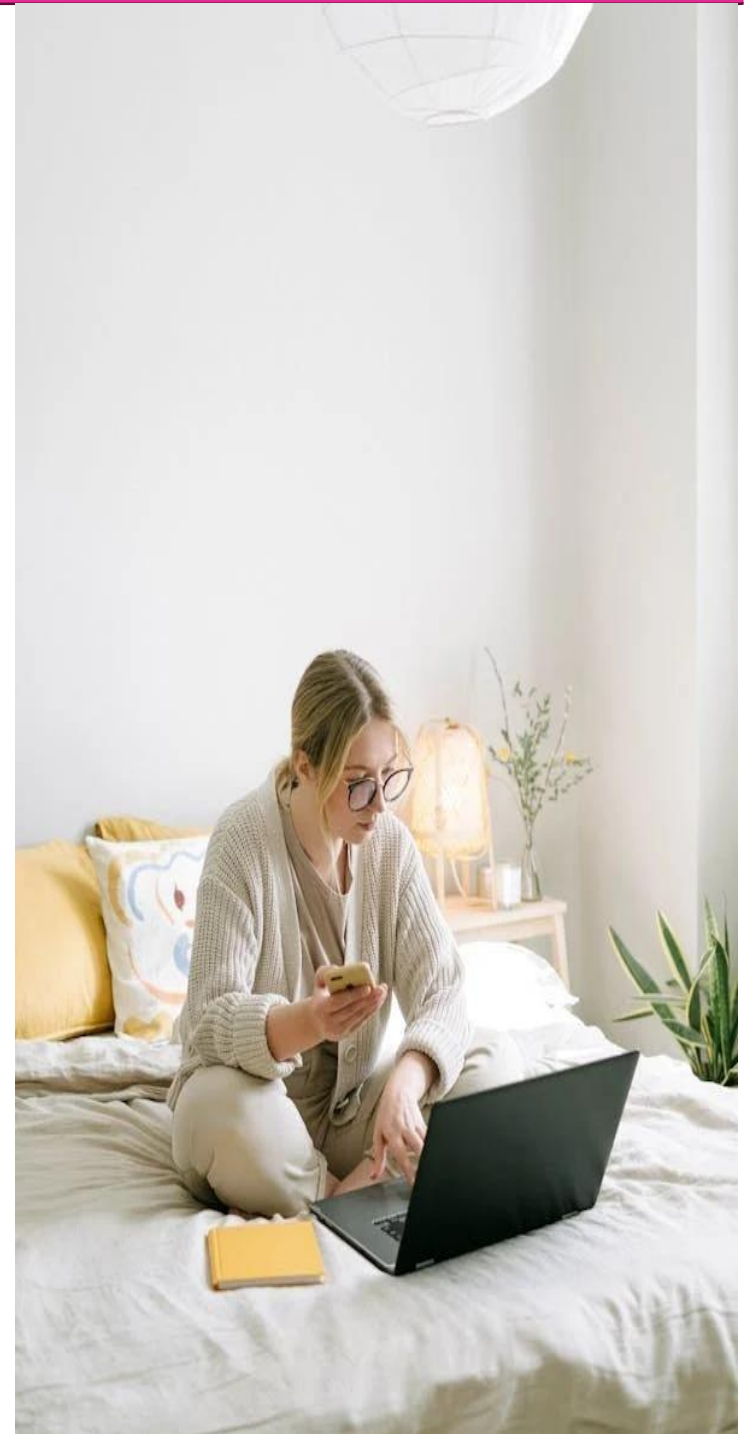
Software Engineers

DevOps Professionals

System Architects

QA & Test Engineers

IT Professionals & Students



Microservice Training Certification Topics:

Module 1: Core Java & Spring Basics

- Java Fundamentals (OOP, Collections, Exception Handling)
- Introduction to Spring Framework
- Understanding Spring Modules: Core, MVC, Data, Boot
- Building Your First Spring Boot Project (Spring Initializr)
- Dependency Injection & Inversion of Control (IoC)
- Application Properties & Profiles Setup

Module 2: Spring Boot Essentials

- Auto Configuration & Starter Dependencies
- RESTful API Development
- Request/Response Mapping & Validation
- Exception Handling in REST APIs
- Consuming REST APIs using RestTemplate / WebClient

Module 3: Database Integration (Spring Data JPA)

- Connecting with MySQL / PostgreSQL
- Entity, Repository, and Service Layers
- CRUD Operations
- JPQL & Native Queries
- Pagination, Sorting & Transaction Management

Module 4: Spring Security

- Authentication & Authorization
- JWT (JSON Web Token) Authentication
- Role-Based Access Control
- OAuth2 Fundamentals
- Securing REST APIs

Module 5: Microservices Architecture with Spring Cloud

- Monolithic vs Microservices Design
- Service Registration & Discovery with Netflix Eureka
- API Gateway with Spring Cloud Gateway
- Centralized Configuration using Spring Cloud Config

- Inter-Service Communication using Feign Client
- Load Balancing (Ribbon)
- Circuit Breaker & Fault Tolerance (Resilience4j /

Hystrix)

Module 6: Docker & Deployment

- Introduction to Docker and Containerization
- Dockerizing Spring Boot Microservices
- Introduction to Kubernetes

Module 7: React.js Frontend Development

React Fundamentals

- JSX and Virtual DOM
- Components, Props & State
- Handling Events and Conditional Rendering
- Lists and Keys

Hooks & State Management

- useState, useEffect, useRef, useContext
- Custom Hooks
- Context API & Redux Integration

Routing & API Integration

- Distributed Tracing (Zipkin & Sleuth)
- Messaging Integration (Kafka / RabbitMQ)

- CI/CD Overview (Jenkins / GitHub Actions)
- Deploying Microservices to AWS / Azure / GCP

- React Router (v6)
- Fetch & Axios for REST API Calls
- CRUD Operations with Spring Boot Backend

UI & Styling

- Material UI / Bootstrap
- CSS Modules & Styled Components
- Responsive Design

Advanced Concepts

- Form Handling & Validation
- Performance Optimization (React.memo, useCallback)
- Lazy Loading & Code Splittin

Module 8: Testing & Debugging

- Backend: JUnit & Mockito
- Frontend: Jest & React Testing Library

- API Testing with Postman
- Integration Testing

Module 9: Real-Time Full Stack Project

Project Example: E-Commerce Platform

Microservices:

- User Service
- Product Service
- Cart Service
- Order Service
- Payment Service
- API Gateway & Config Server

- Product Listing & Details
- User Login & Registration (JWT Authentication)
- Shopping Cart Management
- Order Summary & Payment UI

Features:

- REST API Communication between Frontend & Backend
- Authentication & Role-Based Access
- Docker Deployment on AWS

Frontend (React.js):

Module 10: Career & Deployment Support

- Git & GitHub Version Control
- Resume Preparation & Interview Guidance
- Project Presentation & Portfolio Building

- Internship Opportunities via Yuva Sakthi Academy Partner Companies
- Certification from Yuva Sakthi Academy

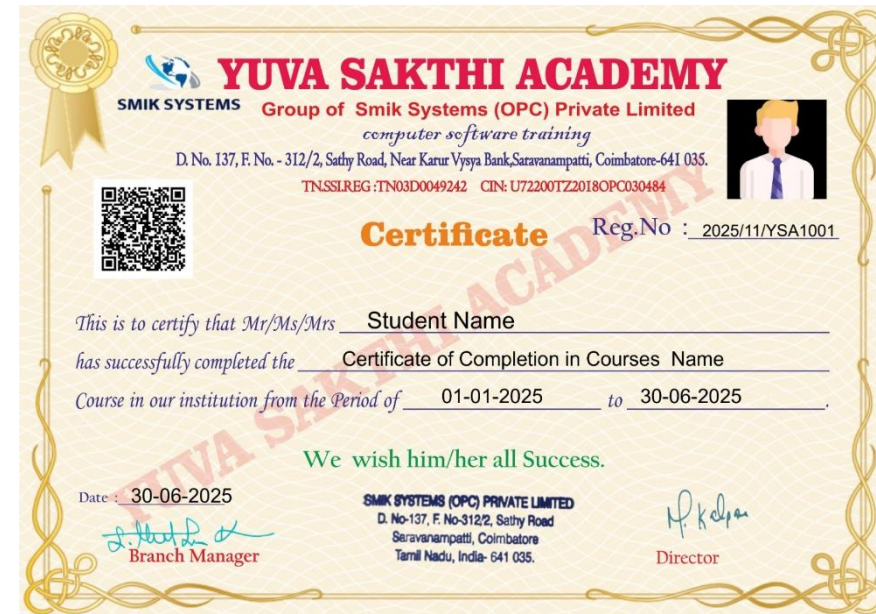
Possible Aspects of an IT-Focused Project

Our Java Fullstack with Microservices Training Program equips participants with essential skills for building scalable, maintainable, and cloud-ready applications. This comprehensive training includes certification and hands-on experience with Java, Spring Boot, REST APIs, and microservices architecture, allowing participants to develop and deploy real-world applications. The program emphasizes practical learning with project-based scenarios, integration with CI/CD pipelines, and best practices in backend and frontend development. Career guidance and industry insights are provided, offering mentorship and networking opportunities to advance in software development. By focusing on fullstack development and microservices expertise, the program prepares participants for a successful career as Java Fullstack Developers and Microservices Architects.



Yuva Sakthi Academy Certification

The **Yuva Sakthi Academy** Certification is a distinguished credential designed to validate the expertise and practical skills of individuals in the retail industry. This certification is awarded upon successful completion of our comprehensive training programs, which cover essential areas such as customer service excellence, sales techniques, and retail management. Participants gain hands-on experience and industry-recognized qualifications, setting them apart in the competitive retail job market. Our certification program not only enhances your professional profile but also equips you with the knowledge and skills needed to excel in various retail roles. By earning this certification, you demonstrate your commitment to excellence and readiness to contribute effectively to the retail sector. Whether you're seeking to advance your career or embark on a new journey in retail, the Yuva Sakthi Academy Certification is a valuable asset to support your career goals.



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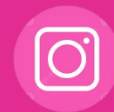
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