

SHIVKUMAR WAKCHAURE

Java Developer

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OBJECTIVE

Experienced Java Developer with expertise in Java, Spring Boot, React, Node.js, and enterprise system integration. Led secure API integrations and contributed to UI modernization in the Karnataka Government's IFMS project. Skilled in full-stack development with a focus on building scalable, maintainable, and high-performance applications.

EXPERIENCE

System engineer | TCS | Gandhinagar, Gujarat | October 2022 – Present

- Developed secure RESTful web services between IFMS and external agencies (e.g., RBI, Karnataka Police) using Java, Spring Boot, and Apache Camel.
- Implemented OAuth 2.0, JWT, encryption/decryption, and digital signature protocols to ensure secure communication.
- Built a Spring Boot middleware microservice for biometric (fingerprint) capture and matching with the KIFMS system.
- Designed scalable APIs, led integration testing, and implemented robust error handling with clear HTTP responses.
- Handled legacy system enhancements (Java/JSP, MVC), built Grafana dashboards for service monitoring, worked with IBM DB2, and maintained API/system documentation.
- Upgraded Webservices JDK from 11 to 21 and migrated Apache Camel to 4.8, improving system compatibility and performance.
- Upgraded Spring Boot Admin Server from JDK 11 to JDK 21 with Spring Security 6, and enhanced server monitoring by designing custom email notification templates for alerts.
- Collaborated with UI/UX, DevOps, and backend teams; modernized the Citizen Portal UI using React.js for enhanced UX and accessibility.

EDUCATION

B. E. Mechanical | Savitribai Phule Pune University | 2018 – 2022 | 8.57 CGPA

SKILLS

Java, Spring Boot, Spring MVC, Apache Camel, RESTful APIs, OAuth 2.0, JWT, Node.js, React.js, Python, SQL, NoSQL (MongoDB), API Security, Microservices Architecture, CI/CD (Jenkins, Git, SVN), Cloud Deployment (Firebase, Vercel), Grafana (Monitoring & Dashboards)

PERSONAL PROJECTS

Jar Explorer – VS Code Extension

- Built a Visual Studio Code extension to explore and decompile archives (.jar, .war, .ear, .zip, .vsix) directly inside the IDE.
- Designed a tree-view interface with support for nested archives (JARs inside WARs/EARs).
- Integrated a Java decompiler (CFR) to render .class files with syntax highlighting.
- Enhanced UX with loading indicators, timeout/cancel for stuck decompilation, and a tabbed WebView UI.
- Added support for viewing embedded assets (images, text) and a dedicated Activity Bar icon.
- Tech Stack: Java, VS Code Extension API, Node.js

Thread Dump Analyzer – VS Code Extension

- Built a Visual Studio Code extension to analyze JVM thread dumps with a modern React (Chakra UI) frontend.
- Integrated with a custom Java CLI backend to parse and analyze thread dumps (states: RUNNABLE, WAITING, BLOCKED, TIMED_WAITING).
- Implemented deadlock detection (JVM-reported + inferred) and visualization of large dumps (1500+ threads).
- Designed an interactive UI for browsing dumps, filtering threads by state, and highlighting deadlocks.
- Optimized workflows for users by combining backend analysis with a frontend visualization layer in VS Code.
- Tech Stack: Java (CLI), React, Chakra UI, VS Code Extension API, Node.js