

ASAM PAVAN KUMAR REDDY

Java Full Stack Developer | AI Native Java Developer | DevOps Engineer

Bengaluru, India | +91 – 7569909956 | ssslnkalyan.com | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

PROFESSIONAL SUMMARY

Gen AI-native **Java Full Stack & DevOps Engineer** with 3.8 years of experience building enterprise-grade **Spring Boot** microservices, **React/Angular** frontends, and automated **CI/CD** pipelines in production environments. Hands-on with **Java platform modernization** (Java 5 → 17/21), **NoSQL-to-PostgreSQL** migrations, **Docker/Kubernetes** deployments, and **Prometheus/Grafana** observability. Builds **AI-agent and MCP-style integrations** on top of Java backends and applies AI-native engineering practices using **GitHub Copilot**, **Cursor**, **Claude**, and **n8n** to accelerate delivery and reduce manual effort. **AWS Certified Developer | GitHub Copilot Certified | Salesforce PD1 & Admin Certified**.

TECHNICAL SKILLS

Backend	Java, Spring, Spring Boot, REST APIs, Microservices, Kafka
AI Tech Stack	Gen AI, LLM Integration, AI Agents, MCP, GitHub Copilot, Claude, Cursor, n8n, Prompt Engineering
Frontend	HTML5, CSS3, JavaScript, React, Angular
DevOps & Cloud	AWS, Salesforce, Docker, Kubernetes, Jenkins, GitHub Actions, Prometheus, Grafana
Databases	PostgreSQL, MySQL, MongoDB
Build & test	Maven, Gradle, JUnit, CI/CD, Git

PROFESSIONAL EXPERIENCE

Java Full Stack & DevOps Engineer — HCL Tech (Actian)

Feb 2024 – Present | Bengaluru

- Developed and maintained production **Java/Spring Boot microservices** and **RESTful APIs**, contributing to **3+ major feature** releases per quarter across enterprise client environments.
- Led platform migrations — **Java 5 to 17 and 21**, Bearer token to **JWT authentication** — with near zero downtime, improving runtime performance by **~30%** and hardening security.
- Built **Python automation scripts** for **NoSQL-to-PostgreSQL migration**, validating schema consistency, data integrity, and migration errors while reducing manual verification effort by **60%**.
- Redesigned **Jenkins CI/CD pipelines** and Git branching strategy, cutting build-to-deploy cycle time by **30% (120 min → under 80 min)** across all environments with help of **GitHub Copilot AI**.
- Containerized Spring Boot services using **Docker** and deployed on **Kubernetes**, enabling autoscaling and consistent deployments across dev, staging, and production; implemented **Grafana dashboards** to monitor JVM metrics, API latency, and error rates.
- Maintained **>85%** unit/integration test coverage (**300+ test cases**) using **JUnit and Maven**; leveraged **GitHub Copilot** to accelerate test authoring by **~40%** during sprint cycles.
- Explored **AI-agent integration** approaches using **MCP-style** patterns to expose structured backend operations for future workflow automation and intelligent client assistance.
- Adopted **AI-assisted development** practices using **GitHub Copilot**, **Cursor**, **ChatGPT**, **Claude**, and **n8n** for code generation, testing, documentation, architecture discussions, and workflow automation, improving delivery efficiency.

Associate Software Engineer — Tech Mahindra

Aug 2023 – Jan 2024 | Bengaluru

- Built and integrated **Java Spring Boot backend services** and **REST APIs** within a hybrid **Salesforce-Java** enterprise architecture serving 10,000+ users.
- Developed **Salesforce custom solutions (Apex, LWC, Flows)** and **REST API integrations** — reducing manual configuration effort by **20%** across client onboarding workflows.
- Reduced production incidents by **30%** through rigorous Apex and Java unit test coverage (**>75%**) and enforcement of solid development principles during code reviews.

- Participated in Agile sprints, CI deployments, and release testing cycles — contributing to on-time delivery across 4 consecutive sprint cycles.

Associate Software Engineer Trainee — [Wipro \(Intern + Certification\)](#): Implementing basic **CRUD Full Stack apps** from scratch

KEY PROJECTS

AI-powered Advanced Task Manager — Jira-style Full Stack Platform

[GitHub Link](#)

Personal Project

- Built a full-stack task platform with **Spring Boot REST APIs**, **React UI**, **JWT auth**, and role-based authorization; architected for AI-driven **MCP-style** agent integrations enabling automated **CRUD via AI assistants**.
- Designed for **1,000+ concurrent users** with scalable backend patterns, reduced task management overhead drastically through AI-agent and **AI-assisted workflow** automation in the UI.
- Deployed and maintained production workloads on **AWS** by migrating services from ECS to EC2, configuring Load Balancers, HTTPS, Elastic IPs, **Prometheus/Grafana** monitoring, and S3-based frontend hosting.

AI Fleet Reassignment Engine — Intelligent Delivery Operations Platform

[GitHub Link](#)

Hackathon Project

- Designed and developed an AI-powered delivery operations platform that detects **delivery agent failures** in real time and **generates confidence-ranked reassignment recommendations** using **Groq Llama 3.3 70B**, reducing manual intervention through an **event-driven recovery workflow**.
- Implemented using **Java 17**, **Spring Boot 3**, **React 18**, **PostgreSQL**, asynchronous event processing (**@Async + ApplicationEventPublisher**), Strategy Pattern routing, and deployed on **Railway** and **Vercel**.

EDUCATION

B.Tech — Electronics & Communication Engineering | RGM CET (Autonomous), Nandyal, AP | **First Class with Distinction** | 2019 – 2023

CERTIFICATIONS

Microsoft Certified GitHub Copilot

Cloud Computing — IIT Kharagpur Associate

Salesforce 2X Certified (Admin, PD1)

AWS Certified Developer

Machine Learning — Mouktik Technologies

Java Full Stack Certified -- Wipro