Vivek Patil

Sr. Java Fullstack Developer | 11+ Years Experience
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Professional Summary

Senior Java Fullstack Developer with 11+ years of experience designing and building Java, Spring Boot, and microservices-based backend systems, event-driven architectures, and REST APIs for enterprise clients including American Express and Medidata (Dassault Systemes). Skilled in cloud-native development on AWS with Docker and Kubernetes (EKS), Kafka-based messaging, and end-to-end delivery from requirements through production support.

Strong expertise in the LLM/GenAI ecosystem, including orchestration frameworks (e.g., LangChain), agentic and graph-based workflows (e.g., LangGraph), RAG and search patterns, and vector databases, with sound judgment in designing and deploying both traditional (non-AI) and AI-driven solutions at enterprise scale.

Technical Skills

Languages: Java (11-21+), Python (Flask, FastAPI), JavaScript(React/Redux), C++ (STL, Multi-threading)
Backend & Architecture: Spring Boot, Microservices, Event-Driven Architecture, Domain Driven Design (DDD), REST APIs, System Design
GenAI & LLM Ecosystem: LangChain, LangGraph, RAG, Vector Databases, Agentic Workflows, Prompt Orchestration, Semantic Search, LLM Governance
Cloud & DevOps: AWS, Docker, Kubernetes, Hybrid Cloud
Messaging & Data: Kafka, Queues, JSON, MySQL, MongoDB, JPA/Hibernate
Security & Observability: OAuth2, Keycloak, Vulnerability Management, SonarQube, Dynatrace, Telemetry & Monitoring
Testing & Ways of Working: JUnit, Cucumber (BDD), Postman, Git, Maven, Agile/SCRUM, Jira, Confluence

Professional Experience

Cognizant – Manager, Projects (Sr. Java Fullstack Developer) 2023 – Present
Client: American Express *Pune, India*

- Designed and maintained 10-15 backend microservices using Java (Spring Boot) and Python (Flask) for the Product Enablement Platform, enabling onboarding and integration of multiple internal products across American Express teams.
- Defined platform architecture, service boundaries, and integration standards to support reuse, scalability, and independent team ownership.
- Built 8-12 backend microservices with a React UI for the CMDB Data Analysis Platform to validate and justify CMDB data correctness, reducing manual effort by approximately 60%.
- Owned end-to-end delivery (customer discussions, schema design, HLD/LLD, development, deployment, maintenance) and designed event-driven components using Kafka, improving performance through tuning and profiling.
- Handled observability, production triage, vulnerability remediation, and DR exercises in a hybrid cloud setup using AWS, Docker, and Kubernetes (EKS) supporting high-availability systems.
- Designed and integrated GenAI services into the Enterprise Product Enablement Platform to automate ITSM workflows, security operations, and platform enablement through intelligent agent-based automation.
- Built RAG-powered knowledge services over ITSM runbooks, security policies, API catalogs, CMDB metadata, and operational documentation using LangChain and vector databases.
- Developed domain-specific AI agents for incident triage, root cause analysis, change management, service onboarding, and platform support using LangGraph workflows.
- Architected multi-agent orchestration enabling secure collaboration between ITSM, Security, and Platform Engineering services through tool calling and enterprise APIs.
- Designed LLM-powered platform APIs exposing intelligent capabilities for service onboarding, API discovery, documentation search, and operational assistance across internal engineering teams.
- Implemented enterprise AI governance including RBAC, prompt guardrails, audit logging, evaluation pipelines, and observability to meet security and compliance requirements.
- Built reusable AI platform components for prompt orchestration, semantic retrieval, embedding pipelines, and agent execution, accelerating AI adoption across enablement products.

- Designed hybrid AI architectures combining deterministic workflow engines with LLM reasoning for secure automation of enterprise platform operations.
- Integrated Confluence, ServiceNow, CMDB, API catalogs, security documentation, and internal knowledge repositories into a unified semantic search platform using RAG.
- Engineered enterprise-grade GenAI solutions with LangChain, LangGraph, vector databases, and semantic search to improve operational efficiency across ITSM, Security, and Product Enablement platforms.

Dassault Systemes – Senior Software Engineer 2016 – 2023

Pune, India

- Led development of enterprise-scale, event-driven distributed platforms on Medidata's unified clinical trial cloud (Clinical Trial Platform & Patient Cloud), designed to ingest and process continuous streams of clinical data from medical devices and global trial sites.
- Designed queue-based asynchronous processing pipelines to reliably handle heterogeneous device and site events with ordering, fault isolation, and durability, supporting long-running, highly regulated clinical workflows.
- Designed REST APIs and owned schema design for an Insurance Policy Management system, improving backend performance, scalability, and reliability.
- Contributed to performance-critical service components and C++ modules (STL, multi-threading) for Cloud CAD applications.
- Collaborated with architects on design decisions and supported production issues with a focus on stability and performance.

Neilsoft – Software Engineer 2014 – 2016

Pune, India

- Developed Java-based internal tools and utilities for the KC client.
- Delivered automation solutions that significantly reduced manual effort.

Education

SKN Sinhgad College of Engineering Solapur, India

Bachelor of Engineering, Mechanical Engineering *2014*