Ankit Agrahari

AI SOFTWARE ENGINEER · SPRING PORTFOLIO · AGENTIC SYSTEMS · 12+ YEARS JAVA

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PROFESSIONAL SUMMARY

Lead Backend Engineer with **12+ years** of Java and Spring ecosystem experience, delivering production-grade distributed systems in insurance, enterprise automation, and cloud-native domains. Currently designing and building **agentic AI systems** inside enterprise boundaries — including a full SDLC multi-agent orchestrator (CodeForgeAI) using Spring AI, pgvector, and Jira integration — alongside personal production projects in RAG, Kafka stream processing, and SaaS. Deep hands-on expertise across the **Spring Portfolio** (Boot, AI, WebFlux, Cloud, Batch, Security, Data), Apache Kafka, and vector databases. Proven technical leader: mentors engineers, drives architectural decisions, owns release management, and evangelizes AI-first engineering practices.

EXPERIENCE

Development Lead

Sep 2023 – Present · 1 yr 8 mo

EPAM Systems · Gurugram, India · Insurance Domain (PolicyCore / EIS)

- Lead end-to-end feature implementation, defect resolution, and release management for the **PolicyCore / EIS** insurance platform — owning the full delivery lifecycle from requirement to production.
- Mentor senior and mid-level engineers on Spring best practices, system design, and code quality; conduct architectural reviews and set engineering standards for the team.
- Drive continuous improvement in engineering processes: standardized CI/CD pipelines, introduced code review gates, and reduced release cycle friction across quarterly delivery cadences.

CODEFORGEAI — ENTERPRISE SDLC MULTI-AGENT SYSTEM

- Architected and built **CodeForgeAI**, a full SDLC agentic pipeline: accepts FRD as input → BA Agent parses and uploads context to **pgvector** → Story Generator Agent breaks requirements into Jira user stories with acceptance criteria → **Jira integration** auto-creates stories.

  Agentic Orchestration
- Implemented **CodeGenerator Agent** that produces code from story descriptions and AC, feeding into a **Code Reviewer Agent** — with a hardened feedback loop capped at **maxIterations=3** before triggering human-in-the-loop approval.
- Built **Test Generator and Test Executor Agents** as downstream pipeline stages, with human approval gates after each agent completion — implementing safe, auditable agentic workflows.

  Tool Use · Multi-Step Reasoning

CORE SKILLS

AI / LLM / AGENTIC

Spring AI · Agentic Patterns · Multi-Agent Orchestration · RAG Systems · Anthropic Claude · Tool Use / Tool Calling · Prompt Engineering · Vector Databases · pgvector / Weaviate · Ollama · LLM Context Mgmt

LANGUAGES

Java · Python · SQL · JavaScript

SPRING PORTFOLIO

Spring Boot · Spring AI · Spring WebFlux · Spring Cloud · Spring Batch · Spring Data · Spring Security

STREAMING / DATA

Apache Kafka · PostgreSQL · Elasticsearch · Vertica · Oracle · Hibernate / iBatis

DEVOPS / INFRA

Docker Compose · Kubernetes · GitHub Actions · Jenkins · Maven · Git

PERSONAL PROJECTS

Production RAG System

Spring Boot + Weaviate + Anthropic + Elasticsearch. Hybrid retrieval (70% vector / 30% BM25), reactive WebFlux, Ollama embeddings.

github.com/ankitagrahari/production-rag-system

Webhook Debugger SaaS

- Designed extensible agent abstraction layers and tool-calling interfaces, enabling independent agent upgrades without pipeline re-architecture — directly applying Spring AI orchestration patterns.

AI HACKATHON — KNOWLEDGEBASE RAG SYSTEM

- Developed a **context-grounded KnowledgeBase RAG system** during an internal AI Hackathon: accepts document uploads, stores embeddings in a vector store, and answers queries strictly from retrieved context — no hallucination fallback. RAG · Vector Search

Senior Software Designer
Jul 2018 – Sep 2023 · 5 yr 3 mo

Micro Focus · Bangalore, India · Enterprise Automation

- Led a team delivering **SA-ITOM Dataminer** — a Spring Boot REST service mining data from Server Automation nodes and publishing to Optic Data Lake (Vertica), handling multi-environment deployments via Kubernetes and Jenkins CI/CD.
- Built **Compliance Content Studio**: Spring Boot REST microservice with full CRUD operations for benchmark/policy scripts, integrated Swagger documentation, and comprehensive JUnit coverage.
- Led hackfest team of 4 to deliver **DMA Vulnerability Detector** in one week — ingesting National Vulnerability Database feeds and exposing Spring Boot REST endpoints to surface vulnerable libraries across managed servers.
- Owned **Data Middleware Automation (DMA)** production support and feature work: resolved customer-raised production issues, maintained Python workflows, upgraded Struts to 2.5.2 (CVE remediation), and migrated Adobe Flash UI to mxGraph/Google Charts.
- Identified and remediated security vulnerabilities across the Spring Boot application surface; enforced dependency hygiene and conducted architectural security reviews.

Consultant – Java / Spring
Feb 2017 – Jun 2018 · 1 yr 5 mo

Deloitte · Bengaluru, India · Healthcare & Sales

- Contributed to **Semoss**, an open-source ASL v2 analytics platform — developed new UI widgets, handled new functionality integration across Java and R stacks; worked with Bamboo CI and SharePoint API.

Open-Source Contribution

- Refactored Java/Spring Boot codebase for **SPS Healthcare** (EPDS v2 migration) to improve performance and data transfer reliability; delivered **Nissan Sales Analysis** bug-fix release on time.

Software Engineer II
Nov 2012 – Feb 2017 · 4 yr 4 mo

Zyme Solutions · India · Channel Data Management

- Developed and maintained **TruePay** — a channel incentive automation engine (rebates, MDF, price-protection, loyalty) — using Java, Spring, Hibernate, iBatis, REST/SOAP web services, and Liferay across 4 years of releases.
- Provided techno-functional offshore support: resolved QA/UAT/PROD issues within SLA, owned deployment pipelines, and collaborated across cross-functional teams on each release cycle.

Spring WebFlux + Kafka KRaft + PostgreSQL + Vaadin. Real-time event inspection platform built for production scale.

Kafka Stream Processing
Processing 10k events/second pipeline — demonstrating high-throughput Kafka architecture and partition-aware consumer design.

Multi-Agent Orchestrator
Personal exploration of agent orchestration patterns: tool-calling, multi-step reasoning, feedback loops, and human-in-the-loop gates.

EDUCATION

B.Tech – Information Technology
RKGIT, Ghaziabad (UPTU)
2007 – 2011 · 74%

CERTIFICATIONS

EIS Tooling Engineer

EIS v20

PolicyCore

LINKS

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