Yashaswini B

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Professional Summary

Backend Software Engineer with **2.5+ years of experience** designing, implementing, and scaling high-availability enterprise backend systems, distributed microservices, and RESTful APIs using **Java (8/17/21)**, **Spring Boot**, and **PostgreSQL**. Experienced in architecting integration middleware using **Apache Camel**, ensuring high transaction integrity, and automating CI/CD pipelines. Actively applying Generative AI and agentic architectures using **LangChain4j** and **PgVector** to build resilient, semantic enterprise workflows and intelligent query systems.

Technical Skills

Languages: Java (8/17/21), SQL, Python (Basics), XML, JSON
Backend Frameworks: Spring Boot 3.x, Spring Data JPA, Microservices, RESTful APIs, Spring MVC, Apache Camel, Hibernate, Maven
Databases & Storage: PostgreSQL, PgVector, Oracle DB, MySQL, H2 Database
Applied AI & Modern Tech: LangChain4j, RAG Architectures, LLM Tool Calling, Semantic Search, PgVector Embeddings
DevOps & CI/CD: Docker, Jenkins, Git, Bitbucket, SonarQube, NexusIQ, Linux
Testing & Architecture: JUnit 5, Mockito, RestAssured, Cucumber BDD, Enterprise Integration Patterns (EIP), Agile/Scrum

Professional Experience

Software Engineer (Backend Developer) Apr 2026 – Present
IN Groupe *Bengaluru, India*

- Architected and deployed production-grade backend microservices and middleware systems using **Java 17** and **Spring Boot 3.3.x** for high-throughput enterprise transaction workflows.
- Engineered robust integration pipelines utilizing **Apache Camel 4.8.x** and Enterprise Integration Patterns (EIP) to transform, route, and validate business-critical data streams across distributed platforms.
- Designed automated verification, validation, and decisioning workflows backed by **PostgreSQL**, ensuring data consistency, high availability, and audit traceability.
- Built and documented scalable, secure RESTful APIs integrated with enterprise persistence layers, optimizing database query performance and connection pooling.
- Collaborated actively in globally distributed Agile engineering sprints, performing static code analysis, code reviews, and production release support.

Associate Software Engineer Dec 2024 – Mar 2026
IDEMIA *Bengaluru, India*

- Developed, tested, and deployed modular backend REST APIs and core services using **Java 8+**, **Spring Boot**, and **Spring Data JPA** to support identity and platform integrations.
- Accelerated build, automated testing, and deployment cycles by standardizing containerized pipelines using **Docker** and **Jenkins**.
- Diagnosed runtime application logs, debugged cross-service bottlenecks, and resolved high-priority backend platform tickets in coordination with international cross-functional teams.

Software Engineer Intern Feb 2024 – Nov 2024
IDEMIA *Bengaluru, India*

- Authored a standalone internal utility tool (**TestGen**) in Spring Boot to parse structured test files, reducing manual lifecycle management overhead by 40%.
- Enforced static code hygiene and automated quality gates using **SonarQube** and **NexusIQ**, proactively refactoring legacy codebases to remediate technical debt.
- Fine-tuned relational schema queries and indexing across **PostgreSQL** and **MySQL** databases to optimize execution times.

Key Projects

AI RFP Response Agent & Knowledge Copilot | *Java 17, Spring Boot 3, LangChain4j, PostgreSQL, PgVector* Oct 2026

- Architected an enterprise RAG-driven proposal assistant automating complex Request for Proposal (RFP) technical response generation from historical enterprise documentation.
- Integrated **PgVector** semantic retrieval with custom scoring algorithms, grounding model responses in approved whitepapers and eliminating hallucination risk.
- Engineered Spring Boot REST APIs to handle semantic chunking, dynamic confidence calculation, and human-in-the-loop review queues, reducing manual proposal drafting time significantly.
- *Built as part of the Azentio.ai Build Labs Hackathon (HackCulture), selected among competitive teams across India.*

Agentic Database Copilot & Query Optimizer | *LangChain4j, Spring Boot 3, PostgreSQL, PgVector* Jun 2025

- Built a multi-agent AI system converting natural language prompts into secure, executable SQL queries with automated self-correction and validation loops.
- Implemented **PgVector** semantic caching to store previously verified query plans, reducing response latency by **45%** and slashing LLM token consumption.
- Incorporated strict query sanitization guardrails to prevent unauthorized execution or destructive SQL commands against the production schema.

Enterprise Integration Middleware Platform | *Java, Spring Boot, Apache Camel, PostgreSQL* 2026

- Developed an enterprise middleware platform for high-throughput batch file ingestion, payload transformation, and downstream dispatch.
- Implemented content-based routing, automated business rule validation, dead-letter channels, and audit logging to ensure transaction traceability.

Honors & Hackathons

Azentio.ai Build Labs Hackathon (HackCulture) | *Selected Participant & Certificate of Participation* **Oct 2026**
Shortlisted among competitive nationwide applicants for the in-person hiring hackathon in Bengaluru; architected and developed a full-stack automated RFP response generator utilizing Spring Boot 3, LangChain4j, and PgVector.

Education

MVJ College of Engineering Bengaluru, India
Bachelor of Engineering (B.E.) in Computer Science *2020 – 2024*