

# FAHAD MOHAMMED

Java Backend Developer | Spring Boot | AWS | Microservices | Gen AI & LLM Integration

📞 +91 8328069428 ✉️ [codewithfahad.java@gmail.com](mailto:codewithfahad.java@gmail.com) 🌐 [fahadcodes.in](http://fahadcodes.in) 🔗 [LinkedIn](#) 🐙 [GitHub](#)

## Professional Summary

Java Backend Developer with 1.5+ years of experience designing scalable backend systems using Java 17, Spring Boot, REST APIs, Microservices, and Event-driven architecture. Proficient in integrating Generative AI solutions using Spring AI, RAG pipelines, MCP servers, and vector databases to build AI-powered applications

## Experience

**e2open Software India Pvt. Ltd**

**September 2024 – Present**

*Associate Software Engineer*

*Hyderabad, Telangana*

- Built backend services using **Java 17**, **Spring Boot**, and **Microservices** to support logistics and supply chain platforms
- Developed and maintained **6+ RESTful APIs** for LSP platform services, ensuring high performance, scalability, and clean contract-based API design
- Actively participated in Spring Boot and Java upgrade initiatives, supporting migration to **Spring Boot 3.x** and **Java 17**, improving security compliance and reducing technical debt by **30%**
- Collaborated with Architects and Product Owners on new feature design and epics, contributing to architectural decisions that improved backend maintainability
- Architected and developed the **TMSLSP AI Assistant** as a POC using **Spring AI**, **Retrieval-Augmented Generation (RAG)**, and **Model Context Protocol (MCP)** servers
- Delivered a brown bag knowledge-sharing session to **40+ engineers** on the TMSLSP AI Assistant, highlighting real-world AI integration with APIs, databases, and knowledge bases
- Resolved **17+ customer-reported production defects** and **30+ internal QA-raised bugs**, improving production stability and timely sprint releases

## Projects

**TMSLSP AI Assistant Chatbot** | *Spring AI, REST APIs, RAG, MCP*

**e2open** | **2025 - 2026**

- Designed and developed an internal **AI-powered assistant chatbot (POC)** for the **TMSLSP platform**, capable of interacting with TMSLSP APIs, databases, and knowledge bases to deliver context-aware responses
- Implemented AI guardrails, chat memory, and vector database integration to ensure persistent and reliable chatbot interactions
- Built a Confluence data ingestion pipeline to add and delete documents in a vector store for efficient data retrieval and management

**Document Merge Feature – PrintManager Service**

**e2open** | **2025**

- Developed document merge functionality in PrintManager using Apache PDFBox, allowing users to seamlessly view a single merged PDF instead of multiple files
- Integrated PrintManager with DocServ service via **Inter-service communication** to fetch generated documents

**Metrics Service – Spring AOP**

**e2open** | **2025**

- Developed a custom `@TrackExecutionTime` annotation with Spring AOP, applied across **10+ services** to log and monitor execution time of critical methods
- Packaged the Metrics Producer as a reusable dependency, enabling seamless adoption of execution-time monitoring across services

**Spring Boot 3.x Upgrade – LSP Platform Services**

**e2open** | **2025**

- Migrated **7 core TMSLSP services** from **Spring Boot 2.7 to 3.x**, enabling long-term support, stronger security compliance, and improved maintainability
- Upgraded tech stack to Java 17 & Spring Security 6+, resolving **100+ compatibility issues** and modernizing services with **Jakarta EE standards** (`javax.*` → `jakarta.*`)

**Data Stream MasterData – EDG Service**

**e2open** | **2025**

- Implemented real-time tracking of master data changes (employees, users, business relations, invoices) within the Logistic Service Provider (LSP) product
- Built a data streaming pipeline to transmit detected changes to the external Watermill service for further processing and integration

**S3Drive – Secure File Management System** | *Spring Boot, JWT, AWS S3, AWS RDS*

**2024**

- Implemented JWT-based authentication and developed RESTful APIs for secure file management with AWS S3, enabling users to upload, download, and delete files stored in the cloud
- Integrated AWS RDS to persist and manage file metadata, enabling reliable tracking and efficient retrieval

Technical Skills

---

**Programming & Core Java:** Java 8, Java 17, OOPs, Streams API, Multithreading, Executors, JDBC  
**Backend Frameworks:** Spring Boot, Spring AOP, Spring Security (JWT), Spring Data JPA/Hibernate  
**Microservices:** Microservices Architecture, RESTful API Design, Inter-Service Communication, Event-Driven Architecture, Resilience4j, Circuit Breaker Pattern  
**Generative AI & LLMs:** Spring AI, Vector Databases, RAG, MCP, Ollama, LLM Integration  
**API Development & Tools:** REST APIs, Postman, Swagger  
**Testing Frameworks:** JUnit, Mockito  
**Databases:** MySQL, Oracle (SQL Developer)  
**Containerization:** Docker  
**AWS Services:** EC2, EBS, IAM, S3, RDS, DynamoDB, VPC, Elastic Beanstalk, ELB, CloudWatch, Auto Scaling  
**Version Control:** Git, GitHub, Bitbucket, JIRA, Confluence  
**IDE & Dev Tools:** IntelliJ IDEA, STS, Maven, Linux, Debugging, MobaXterm, GitHub Copilot

Education

---

<b>Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad</b>	<b>2020 – 2024</b>
<i>Bachelor of Technology in Computer Science and Engineering</i>	<i>CGPA: 9.46/10</i>

Certifications

---

AWS Academy Cloud Foundations – AWS Academy  
AWS Academy Cloud Architecting – AWS Academy