

# FAHAD MOHAMMED

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

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## 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

Associate Software Engineer

September 2024 – Present

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

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**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

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**Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad**

**2020 – 2024**

*Bachelor of Technology in Computer Science and Engineering*

**CGPA: 9.46/10**

## Certifications

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AWS Academy Cloud Foundations – AWS Academy

AWS Academy Cloud Architecting – AWS Academy