

Mohammed Abdul Fahad

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Professional Summary

Computer Science undergraduate specializing in **backend** and **full stack development** using **Java**, **Spring Boot**, and **microservices**. Experienced in building scalable **REST APIs**, **containerized applications**, and **AI-driven systems**, including a **PDF Question Answering System** using **RAG** and **NLP**, with hands-on exposure to **cloud deployment** and **CI/CD pipelines**.

Experience

AWS APAC Solutions Architecture Virtual Experience · Amazon Web Services (AWS) · Forage Jan 2026 – Feb 2026 · Remote

- **Designed** a simple and **scalable hosting architecture** using **Elastic Beanstalk** for a client experiencing significant growth and slow response times — demonstrating knowledge of **performance**, **scalability**, and **cloud distributed systems**.
- **Explained** the proposed architecture in plain language, ensuring the client understood functionality and cost implications; applied **technical communication** and **cloud cost management** skills.
- Skills: **Cloud Cost Management**, **System Architecture**, **Technical Communication**, AWS Elastic Beanstalk

Projects

AI PDF Question Answering System | [GitHub ↗](#) | Python, Transformers, FAISS, NLP, PyTorch, React

- Developed an **AI-powered PDF Question Answering System** using **Retrieval-Augmented Generation (RAG)**, enabling users to extract insights from documents through natural language queries.
- Implemented semantic search using FAISS, enabling retrieval of relevant document chunks in **<200ms for queries over 100+ pages**.
- Built a **context-aware response system** using **local LLMs**, eliminating dependency on external **APIs** and improving response latency by **~30%**.
- Designed and developed an interactive frontend using **React**, enabling users to upload **PDFs** and **query** documents through a clean and **responsive UI**.

Order Management System | [GitHub ↗](#) | Java 17, Spring Boot, Microservices, MongoDB, Docker, GitHub Actions

- Designed and developed microservices handling concurrent API requests using multithreading, improving system responsiveness under load.
- Implemented JWT-based authentication and role-based authorization, and developed User, Order, and Inventory services with RESTful APIs.
- Containerized 3 microservices using **Docker**, enabling consistent deployments, and implemented **CI/CD pipelines** via GitHub Actions; optimized **performance and scalability** using Java concurrency concepts.

Employee Management System | [GitHub ↗](#) | Java, Spring Boot, Hibernate (JPA), REST APIs, MySQL, Angular, JWT

- **Led the design and development** of a **full-stack** Employee Management System following **MVC architecture**, developed **REST APIs** for **CRUD** operations with **unit-tested** service layers.
- Designed and optimized **MySQL schema** for efficient query **performance and scalable data handling**; implemented **role-based access control** and **JWT-based authentication**.
- Deployed frontend on Vercel and backend on Render, enabling **cloud-based access** and **CI-driven deployments**.

Technical Skills

Programming Languages: Java, Python, JavaScript, C++

Backend & Platform Engineering: Spring Boot, REST APIs, Microservices Architecture, API Gateway, JWT Authentication, MVC Architecture

Databases & Data Systems: MySQL, MongoDB, SQL, Data Modeling, Data Quality Checks

Cloud & DevOps: AWS (Elastic Beanstalk), Docker, Git, GitHub, Linux, GitHub Actions (CI/CD), Cloud Deployment (Render, Vercel)

Testing & Engineering Practices: JUnit, Unit Testing, Service Layer Testing, Code Reviews, Clean Code, Design Patterns, Mockito, Mocks & Stubs

Data Structures & Algorithms: Problem Solving, Complexity Analysis, Algorithmic Thinking, Solved 300+ Data Structures and Algorithms problems on LeetCode

Education

Muffakham Jah College of Engineering & Technology, Hyderabad

May 2026

B.E. in Computer Science and Engineering | **Coursework:** OOP, DSA, OS, Databases, Computer Networks, AI, Machine Learning, Discrete Mathematics

Certifications

Complete Web Development Course – Udemy

Linux Essentials – Cisco NetAcad

System Design Fundamentals – Scaler

Java (Basic) Certificate – HackerRank

Python (Basic) Certificate – HackerRank

AWS APAC Solutions Architecture Virtual Experience Program – Amazon Web Services (Forage)