

Mohammed Abdul Fahad

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Professional Summary

Computer Science undergraduate with strong hands-on experience in **Java, Python, Spring Boot** and **cloud-native backend development**. Skilled in building **microservices-based** platforms, **REST APIs**, **CI/CD** pipelines, and containerized applications using **Docker**. Solid foundation in **object-oriented design, data structures, algorithms, unit testing, and concurrent programming** concepts. Passionate about learning new technologies and contributing to **scalable, production grade systems**.

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: 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

Education

Muffakham Jah College of Engineering & Technology – Hyderabad

May 2026

B.E. in Computer Science and Engineering

Relevant Course Work: Object Oriented Programming, Databases, Discrete Maths, Data Structures and Algorithms, Operating Systems, Computer Networks, Artificial Intelligence, Machine Learning, Data Mining, Information Retrieval Systems.

Projects

Order Management System

- Tech Stack:** Java 17, Spring Boot, REST APIs, Microservices, API Gateway, MongoDB, Docker, GitHub Actions.
- Implemented **JWT-based authentication** and role-based **authorization**.
- Developed **User, Order, and Inventory** services with **RESTful APIs**.
- Containerized services using **Docker** and implemented **CI/CD** pipelines using **GitHub Actions**.
- Optimized service **performance** by handling concurrent **API requests** using **Java concurrency** concepts.

Uber Datasets Analysis

- Tech Stack:** Python, SQL, NumPy, Pandas, Matplotlib, Seaborn
- Analyzed **100,000+** Uber ride records using **SQL** and **Python** to identify cancellation patterns **across time, location, and vehicle type**.
- Cleaned and explored data to uncover trends by **time, geography, vehicle type, and user behavior**.
- Generated actionable **insights** to **reduce cancellations and improve operational efficiency**.
- SQL joins, aggregations**, data quality checks, **pandas, visualization** using **Seaborn and Matplotlib**.
- Applied **problem-solving** and **analytical thinking** to explore **patterns**, validate **assumptions**, and propose **data-driven** improvements.

Employee Management System

- Tech Stack:** Java, Spring Boot, Hibernate (JPA), REST APIs, MySQL, Angular, JWT
- Built a **full-stack** Employee Management System using **Java, Spring Boot, REST APIs, MySQL, Angular**, following **MVC** architecture.
- Developed **REST APIs** for **CRUD** operations with **unit-tested service layers**, ensuring **reliability** and **maintainability**.
- Designed and optimized **database MySQL** schema, ensuring efficient **query** performance and **scalable** data handling.
- Implemented **advanced features** including **employee search** and **filtering, role-based access control (Admin/User)**, and secure **JWT-based authentication** for **login/logout**.
- Deployed frontend on **Vercel** and backend on **Render**, enabling cloud-based access and **CI-driven** deployments.

Awards and Certificates

CompleteWebdevelopmentCourse – Udemy

Linux Essentials – Cisco netacad

System Design Fundamentals – Scaler (Quora-inspired case studies)

Python Essentials 1 & 2 – Cisco netacad