

# Mohammed Omer Ahmed

214-885-1390 | [mdomer.9030@gmail.com](mailto:mdomer.9030@gmail.com) | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

## EDUCATION

### The University of Texas at Arlington

Arlington, TX

Master of Science in Computer Science

Jan 2024 – Dec 2025

- Published 2x in IJSDR — Blockchain Applications & Distributed Ledger Technologies (2023)

## EXPERIENCE

### Software Engineer Intern

May 2024 – Aug 2024

Aryagami Cloud Services

Hyderabad, IN

- Developed UI features with Angular 15 and TypeScript, implementing lazy loading and routing optimizations that reduced average page load time by 25% and increasing user task completion speed by 30%.
- Integrated 10+ backend API endpoints using Flask and SQLite, supporting data operations for over 1,000 user records.
- Contributed to 3 weekly feature rollouts using Agile methodology, collaborating with UI/UX and backend teams.

### Software Engineer Intern

May 2022 – Aug 2022

Aryagami Cloud Services

Hyderabad, IN

- Built and deployed a Service Launch Manager with Bootstrap frontend and Django backend for 10+ microservices in a telecom SaaS environment, reducing deployment complexity by 40%.
- Containerized services using Docker and orchestrated deployment via Kubernetes, achieving over 99.9% deployment success rate in staging.
- Deployed microservices for BSS within the MVNE SaaS architecture, improving deployment modularity.

## PROJECTS

### FitSync | React, Node.js, Express, Socket.IO, MySQL, AWS EC2, Gemini AI

- Developed a health platform supporting 50+ daily users, to track workouts, nutrition, and goals with personalized Gemini 2.0 recommendations.
- Implemented real-time updates using Socket.IO and dynamic dashboards using Chart.js to visualize progress metrics, resulting in a 40% improvement in user engagement and session duration.
- Deployed frontend on Vercel and backend on AWS EC2 with MySQL database, implementing automated CI/CD pipelines and achieving 99.5% uptime throughout production.

### EcoNest | React Native, Firebase, Firebase Authentication, Gemini AI

- Developed an AI-powered eco-lifestyle app with gamified features, carbon footprint estimation, daily habit logging, and social media badge sharing and a premium monthly subscription feature, used by a pilot group of 25 users during closed testing
- Integrated Firebase for authentication and real-time data sync, with Gemini 2.0 generating custom eco-goals, increasing habit completion rates by 60%.
- Built a community platform with real-time chat, daily achievement sharing, progress tracking, and a leaderboard system to foster user engagement and enable users to compare eco-friendly habits with others.

### Smart Shopping Assistant | Flask, Bootstrap, SQLite3, GCP

- Designed a shopping app with dynamic product/vendor tracking and price comparison features, generated 20–30% savings in user test cases by recommending lowest-priced products via Flask API.
- Managed 500+ product entries and vendor records in SQLite, implementing efficient indexing and query optimization to support fast product lookups and comparison operations.
- Deployed on Google Cloud VM, connected with Cloud SQL, and monitored via Uptime Check & Log Explorer with 100% availability during tests.

## TECHNICAL SKILLS

**Languages:** Java, Python, TypeScript, JavaScript, HTML/CSS

**Frameworks:** React, Angular, Node.js, Flask, Django, Bootstrap, Material-UI, Angular Material

**Database:** MySQL, MongoDB, Firebase

**Developer Tools:** Git, GitHub Copilot, Amazon Web Services(AWS), Google Cloud Platform(GCP), VS Code, Visual Studio, Claude Code, Codex, Cursor, PyCharm, IntelliJ, Eclipse, Jupyter Notebook, Docker, Kubernetes

**Libraries:** pandas, NumPy, Matplotlib