

Muhammed Anas

Kerala, India • +91 7994555662 • anassafia.dev@gmail.com • github.com/anas-muhmed • linkedin.com/in/anas-muhmed

SUMMARY

Backend engineer with two production-deployed applications on AWS and DigitalOcean, experienced in building REST APIs, containerizing multi-service systems, and automating CI/CD pipelines. Strong in backend architecture, cloud infrastructure, and DevOps workflows — open to backend, full-stack, or DevOps-adjacent roles.

TECHNICAL SKILLS

Backend:	Node.js, Express.js, RESTful APIs, JWT Authentication, Rate Limiting, Bcrypt, MongoDB, Mongoose
Frontend:	React.js, Next.js, TypeScript, Tailwind CSS
Cloud & Infra:	AWS (EC2, S3, IAM, ECR), Linux VPS, Nginx (Reverse Proxy, SSL/HTTPS), SSH, Bash Scripting
DevOps & CI/CD:	Docker, Docker Compose, GitHub Actions, CI/CD Pipelines, Container Networking, Secrets Management
Networking:	HTTP, DNS, Reverse Proxy Concepts, SSL/TLS Termination, TCP/IP Fundamentals
Languages:	JavaScript, TypeScript, Python, Bash, Git, GitHub, Postman

TECHNICAL PROJECTS

DevConnect — Containerized Developer Social Platform [\[Live\]](#)

React • Node.js • Express • MongoDB Atlas • Docker • GitHub Actions • AWS EC2 • AWS ECR • AWS S3 • Nginx

- **Architected a developer networking platform with 27 RESTful API endpoints** on a modular Node.js/Express MVC backend — JWT access/refresh token rotation, bcrypt hashing, Helmet security headers, and rate limiting across 20+ authenticated routes.
- **Built a fully automated CI/CD pipeline** with GitHub Actions: Jest tests → Docker build → AWS ECR push → SSH deploy to EC2 on every push to main — **cutting release time from ~10 minutes of manual steps to under 2 minutes**, with automatic deployment blocking on test failure.
- Deployed on **AWS EC2 behind Nginx** with SSL/HTTPS termination and Let's Encrypt auto-renewal; all services containerized with Docker Compose over a custom bridge network.
- **Cloud-native image pipeline** using Sharp middleware (~60% file size reduction) + AWS S3 via SDK v3 with IAM Role authentication — zero hardcoded credentials.

BuildWise — AI-Assisted System Design Platform [\[Live\]](#)

Next.js • Node.js • MongoDB • OpenAI API • Docker • GitHub Actions • Nginx • DigitalOcean Linux VPS

- **Built a full-stack system design learning platform** where users visually construct architecture diagrams (load balancers, databases, caches, queues) and receive **AI-driven feedback on scalability trade-offs and bottlenecks** — making complex system design concepts interactive and practical.
- **Architected a 5-layer AI service pipeline** (context normalization → prompt templating → provider abstraction → schema validation → mock fallback) powering **8 independent OpenAI endpoints** with a **loosely coupled architecture** — enabling provider swap without touching business logic.
- **Implemented AJV JSON schema validation** on all OpenAI API responses with a **mock-parity fallback system** — eliminating runtime crashes from hallucinated response structures and enabling full offline development.
- Containerized the full stack with Docker Compose across frontend, backend, and AI layers — deployed on a **DigitalOcean Linux VPS with Nginx reverse proxy** and a GitHub Actions CI/CD pipeline for automated delivery on push to main.

CERTIFICATIONS & LEARNING

AWS Solutions Architect Associate (SAA-C03) — In Progress

Expected: June/July 2026

EDUCATION

Bachelor of Computer Applications (BCA)

2023 – 2026

College of Applied Science (IHRD), Kerala, India

Relevant Coursework: Data Structures, Database Systems, Operating Systems, Web Development