

# Muhammed Anas

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[GitHub](#) · [LinkedIn](#) · [Portfolio](#)

## SUMMARY

Full Stack Developer who ships and maintains **production systems independently**. Hands-on across **backend architecture, cloud infrastructure, and DevOps workflows** with deployed projects on AWS, DigitalOcean, and Vercel. . Open to **backend, full-stack, or DevOps-adjacent roles**.

## TECHNICAL SKILLS

**Backend:** Node.js, Express.js, RESTful APIs, JWT Auth, Rate Limiting, Bcrypt, MongoDB, Mongoose, Supabase (Postgres)  
**Frontend:** React.js, Next.js 14 (App Router), TypeScript, Tailwind CSS  
**Cloud & Infra:** AWS (EC2, S3, IAM, ECR), Linux VPS, Nginx (Reverse Proxy, SSL/HTTPS), SSH, Bash  
**DevOps & CI/CD:** Docker, Docker Compose, GitHub Actions, Container Networking, Secrets Management  
**Networking:** HTTP, DNS, Reverse Proxy, SSL/TLS Termination, TCP/IP Fundamentals  
**AI & APIs:** Anthropic Claude API, OpenAI API, Resend, Postman, REST

## PROJECTS

### AI Spend Audit — B2B SaaS Audit Tool [Live](#) · [GitHub](#)

Free tool that audits AI subscription spend for startups and surfaces where they are overpaying — built and shipped in 7 days for Credex internship assignment.

Next.js14 · TypeScript · Supabase (Postgres) · Anthropic Claude API · Resend · Vercel · GitHub Actions · Vitest

- Free B2B SaaS tool covering **8 AI tools across 30+ plans** — audit engine built as a **pure TypeScript function with zero side effects**, making all 5 Vitest tests writable without mocking; average audit surfaces **\$340/month in potential savings** with defensible per-tool reasoning and cited pricing sources
- Conducted **user research with 3 real founders and developers** before writing a single line of code — interviews directly changed copy, email gate placement, and recommendation logic; lead capture flows via **Supabase + Resend** with rate limiting and honeypot abuse protection
- Modeled **full unit economics before first commit** — CAC per channel, conversion funnel math (\$0.0023 per audit at scale), and **revenue path to \$1M ARR** documented; shareable audit URLs with Open Graph previews built for viral distribution

### BuildWise — AI-Powered System Design Learning Platform [Live](#) · [GitHub](#)

Platform where users visually construct architecture diagrams and receive AI-driven feedback on scalability tradeoffs — recognized at college showcase.

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

- Architected a **5-layer AI service pipeline** (context normalization → prompt templating → provider abstraction → AJV schema validation → mock fallback) powering **8 independent OpenAI endpoints** with per-endpoint token budgets and sliding-window rate limiting — **provider swap without touching business logic**
- Built a **MongoDB performance analytics layer** with compound indexes and materialized admin metrics — reduced dashboard query fan-out from **5 live collection reads to 1 cached snapshot**, cutting database reads by **80%** while exposing index health and refresh telemetry in the admin panel
- Containerized full stack with **Docker Compose** across frontend, backend, and AI layers — deployed on **DigitalOcean Linux VPS** with Nginx reverse proxy, SSL/HTTPS, and **GitHub Actions CI/CD** for automated delivery on push to main

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

Full stack developer networking platform with feeds, authentication, and cloud-native image handling — fully deployed on AWS EC2.

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

- Architected a modular **Node.js/Express MVC backend** with **JWT access/refresh token rotation, bcrypt hashing, Helmet security headers**, and rate limiting across 20+ authenticated routes; built a **fully automated CI/CD pipeline** — Jest → Docker build → AWS ECR push → SSH deploy to EC2 — cutting release time from **~10 minutes to under 2**, with automatic deployment blocking on test failure
- Deployed on **AWS EC2** behind Nginx with SSL/HTTPS 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**

## 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