

MOHAMMED TALHA AHMED

talha.codes970@gmail.com | (+91) 7995901944 | [GitHub](#) | [LinkedIn](#) | [Portfolio](#)

SKILLS

Languages: JavaScript, TypeScript, Java, Python
Frontend: React, Next.js, HTML, CSS, Tailwind CSS, Tanstack React Query, Zustand Store
Backend: Node.js, Express.js, Spring Boot, MongoDB, PostgreSQL, Redis, RabbitMQ
DevOps & Cloud: Docker, GitHub Actions, Vercel, AWS, Git, Monitoring and Observability (Vercel Analytics)
Testing: Jest, Helmet, Postman, Thunder Client, JUnit
Specializations: Full-Stack Development, AI Integration and Automation, System Design

EXPERIENCE

Software Engineer (AI Automation and Data Systems) Intern Oct 2025 – Ongoing
Emiratiyo Investments | [thecheatschool.com](#) | [emiratiyo.com](#) *Remote*

- Architected and shipped two production applications (The Cheat School - EdTech, Emiratiyo Investments - Real Estate) on a single multi-tenant Spring Boot monolith with PostgreSQL, Docker, and fully automated CI/CD via GitHub Actions, deploying frontend on Hostinger and backend on Fly.io with zero-downtime releases.
- Built an autonomous AI content pipeline connecting Perplexity AI → Make.com → Sanity CMS, publishing SEO-optimised blog posts daily at 12:00 PM with zero human interaction, eliminating content creation overhead entirely for both platforms.
- Engineered an interactive Dubai real estate choropleth heatmap using Leaflet.js, a verified Kaggle boundary dataset, and proprietary pricing research across 100+ communities, enabling users to visually compare sale prices, rental yields, and YoY growth by area.
- Developed a Market Intelligence system computing real-time area insights from Dubai Land Department transaction data including avg price per sqft, off-plan splits, deal volume, best rental yields, highest YoY growth areas, and buyer opportunities across 100+ communities, with GPS-pinpointed property listings and a 5-year ROI calculator with mortgage and yield modelling.
- Built Emira, a private internal AI analyst tool reducing investment research time by 40%, featuring five analysis modules, Gemini API integration with Spring Boot SSE streaming, Resilience4j circuit breaker, Bucket4j rate limiting, PostgreSQL analysis history, and per-module data visualizations.
- Engineered production-grade backend infrastructure across both platforms: fault-tolerant email delivery across 4 registration flows using Resend API, RabbitMQ CloudAMQP message queues, and database fallback, achieving zero data loss during outages; implemented Zod schema validation with Sanity CMS (85% error reduction); CORS security, rate limiting, global exception handling, and React Query caching achieving sub-200ms API responses.

TECHNICAL PROJECTS

Vouch Web Copilot | *Next.js 15, Bun, Hono, PostgreSQL, Google Gemini, Turborepo* [live link](#) | [source code](#)

- Built a browser-native AI intelligence platform that verifies claims on any webpage in under 3 seconds via Google Search grounding, citing 5+ live sources per verdict (Supported/Contradicted/Unverified) with clickable highlights that jump to the exact sentence on the live page; right-click "Vouch This" triggers a fully sourced fact report on any selected text without leaving the page.
- Engineered quantified bias detection (0–100 score) with sentence-level manipulation flagging and SSE streaming responses; architected Turborepo monorepo with Next.js 15 dashboard, Bun/Hono API, Prisma/PostgreSQL persistence, and shared TypeScript packages achieving 100% end-to-end type safety across extension, web, and backend.
- Implemented hybrid authentication (JWT, Google OAuth, OTP via Resend) with a secure 6-digit extension-to-account linking system; deployed backend to Fly.io and dashboard to Vercel with persistent analysis history, public shareable reports, and demo login for zero-friction access.

AxeVision | *MERN, Generative AI (LLMs), WebSockets, Redis* [live link](#) | [source code](#)

- Architected a Full Stack platform cutting WCAG violation detection time by 99.9% (30+ min → <100ms) using Google Gemini AI, auto-generates fixes and classifies severity; built Chrome extension with Git-like DOM diff analysis to visualize accessibility changes with React D3 Tree; integrated Socket.IO WebSocket chat with real-time group channels, direct messaging, and online/offline presence for team collaboration.
- Architected Turborepo monorepo with shared TypeScript types across 4 packages; implemented JWT authentication, role-based access control, and security layers (Helmet, CORS, rate-limiting); established CI/CD pipeline with GitHub Actions and Docker, deployed to Vercel with Redis caching and TanStack Query for real-time team workflows.

ACHIEVEMENTS

Hack Revolution 2025 Winner | 1st Place - FlowCare (Menstrual Health Tracker) - Among 400+ teams | [certificate](#)
Fuji AI Innovate 2025 Hackathon | 3rd Place - WebLenses (Accessibility Platform) - Among 7000+ teams | [certificate](#)
Annual College Magazine Recognition - Featured in college magazine for most technical achievements (2024-25)

EDUCATION

Muffakham Jah College of Engineering and Technology
B.E. in Information Technology
• GPA: 7.8/10

Expected Graduation, August 2027