

# TALHA AHMAD

hi.talhaahmad@gmail.com · [talhaahmad.me](mailto:talhaahmad.me) · [linkedin.com/in/talha-ahmad9](https://www.linkedin.com/in/talha-ahmad9) · [github.com/Talhaahmad9](https://github.com/Talhaahmad9) · Karachi, Pakistan

## SUMMARY

Computer Science student who built a production SaaS delivering automated WhatsApp & email reminders to real users, and won 1st place at IBA Karachi's Hackfest × Datathon 2026 for an AI multi-agent simulation engine. Full-stack developer with shipped products, live client work, and two hackathon trophies. Seeking remote software engineering roles.

## AWARDS

- 1st Place — Hackfest × Datathon 2026, GenAI Module** | IBA Karachi · Score: 88/100 Feb 2026
- Built a multi-agent AI simulation engine (LangGraph + Gemini 2.0) with a Director layer coordinating autonomous characters via Thought-Action-Dialogue loops. Competed as team Midnight Sons vs. teams from LUMS, NUST, FAST NUCES.
- 1st Place — Guilty By Data: The Ashworth Affair** | FAST NUCES Karachi · Score: 836/1000 Apr 2026
- Led murder mystery data investigation using Python, Pandas, NumPy, and Excel analysis as team Midnight Sons.

## EXPERIENCE

- Freelance Full-Stack Developer** | Self-Employed · Remote 2024 – Present
- Built and deployed Vestra ([vestrapk.com](https://vestrapk.com)), a full-stack e-commerce platform for a clothing brand processing real customer orders — integrated Leopard Courier API for automated shipping and a complete admin panel for order & inventory management.
  - Delivered two client projects end-to-end: architecture, backend integration, cloud deployment, and maintenance — independently.
- Technical Advisor** | IEEE IoBM Student Branch · Karachi 2026 – Present
- Advised backend design and stack selection for the TechNova hackathon platform supporting concurrent users across live competition events.

## PROJECTS

- StayDue** | Founder & Solo Developer · [staydue.app](https://staydue.app) 2026
- Next.js · TypeScript · MongoDB · NextAuth · Meta WhatsApp Business API · Resend · Cloudflare R2 · Vercel Cron*
- Production SaaS syncing students' Moodle calendars and delivering deadline reminders via WhatsApp & email 3× daily. Achieved 83% onboarding conversion; 132+ notifications deployed with zero manual intervention.
  - Secure backend: Meta WhatsApp Business API, webhook validation, per-user trial enforcement, automatic rollback on failure, full admin panel for revenue & system health monitoring.
- Market Mayhem** | Real-Time Trading Simulation 2026
- Next.js 15 · TypeScript · Supabase · Socket.IO · Zustand · Railway · Vercel*
- Real-time multiplayer stock trading platform supporting 60–70 concurrent players across 15–20 teams, run twice for live university competitions. Separated HTTP (Vercel) from Socket.IO server (Railway) for independent scaling.
- Multi-Agent Simulation Engine** | 1st Place · Hackfest × Datathon 2026 · [github.com/Talhaahmad9/GenAi\\_DSS2026](https://github.com/Talhaahmad9/GenAi_DSS2026)
- Python · LangGraph · Google Gemini 2.0 Flash · Pydantic · Next.js*
- Multi-agent AI system with Director layer enforcing plot pacing, entity-ownership consistency, and physical action quotas — with real-time Next.js monitoring dashboard.

### Other Projects

NextForge — open-source Next.js auth scaffold (rate limiting, OTP, multi-DB) · Portfolio CMS — full-stack site with private admin, Cloudflare R2, full SEO

## TECHNICAL SKILLS

- Languages** JavaScript, TypeScript, Python, SQL
- Frontend** React.js, Next.js, Tailwind CSS, Framer Motion, Zustand
- Backend** Node.js, Express.js, REST APIs, Socket.IO, JWT, OAuth 2.0, Webhooks
- Databases** MongoDB, PostgreSQL, Supabase, Upstash Redis
- AI** LangGraph, LangChain.js, Google Gemini API, Multi-Agent Systems, RAG Pipelines
- Infra** Vercel, Railway, Cloudflare R2, GitHub, CI/CD, Serverless

## EDUCATION

- B.Sc. Computer Science** | Institute of Business Management (IoBM) · Karachi Sep 2023 – 2027
- 6th Semester · Relevant coursework: Data Structures, Algorithms, Software Engineering, Artificial Intelligence, HCI