TALHA AHMAD

Full-Stack Developer · GenAI Specialist

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EDUCATION

B.Sc. Computer Science · Institute of Business Management (IoBM), Karachi   *Sep 2023 – Expected 2027*
Currently in 6th Semester. Relevant coursework includes Data Structures, Algorithms, Software Engineering, and Artificial Intelligence.

TECHNICAL SKILLS

Languages	JavaScript, TypeScript, Python, Java, HTML5, CSS3
Frontend	React.js, Next.js, Tailwind CSS, CSS Modules, Zustand
Backend	Node.js, REST APIs, Socket.IO, Next.js API Routes, Supabase, MongoDB
AI / GenAI	LangGraph, LangChain, Google Gemini API, Multi-Agent Systems, Prompt Engineering
Tools	Git, GitHub, Vercel, Railway, Clerk, JWT / OAuth, UV Package Manager

PROJECTS

Multi-Agent Narrative Simulation Engine   *Hackfest × Datathon 2026 · 1st Place · Score: 88/100*
github.com/Talhaahmad9/GenAi_DSS
Python · LangGraph · Google Gemini 2.0 Flash · Pydantic · Next.js · Tailwind CSS
Designed a Director-Agent Architecture using LangGraph to orchestrate multiple collaborating AI agents, each maintaining independent memory and state, eliminating logical drift across 7+ unique agent interactions per simulation run. Implemented a global Entity-Ownership Registry and a Thought-Action-Dialogue loop providing full Chain-of-Thought reasoning transparency for every agent decision. Shipped a Next.js real-time dashboard for live simulation control, agent action feeds, and world-state inspection, demoed to competition judges. Awarded 1st place at IBA Karachi's Hackfest × Datathon 2026.

Vestra — E-Commerce Platform   *Freelance Client Project · Live in Production*
vestrapk.com
Next.js · Supabase · Tailwind CSS · Leopard Courier API · Vercel · Hostinger DNS
Built and deployed a full-stack e-commerce platform for a clothing brand, live at vestrapk.com and processing real customer orders. Developed a complete admin panel for product, order, and inventory management with real-time updates. Integrated the Leopard Courier API for automated order processing and shipping workflows, and managed the full CI/CD deployment pipeline via GitHub and Vercel with custom domain configuration through Hostinger DNS.

Stock Challenge — Real-Time Trading Simulation   *In Progress*
github.com/Talhaahmad9/stock-challenge · stockchallenge.vercel.app
Next.js 15 · TypeScript · Supabase · Socket.IO · Zustand · Railway · Vercel
Building a real-time multiplayer stock trading simulation designed for 60–70 concurrent players in university finance competitions. Features timed trading rounds, live leaderboards, an admin control panel, and a cyberpunk-themed UI. Architected as a distributed system with a Next.js serverless API on Vercel and a standalone Socket.IO server on Railway, using JWT-authenticated WebSocket connections and httpOnly-cookie-based authentication.

Personal Portfolio Website   *Live*
talhaahmad.vercel.app · github.com/Talhaahmad9/my-portfolio
Next.js · TypeScript · Tailwind CSS · Vercel
Designed and developed a personal portfolio website showcasing projects, technical skills, and achievements. Built with Next.js and TypeScript, optimised for performance, SEO, and full responsiveness across devices.

CERTIFICATIONS & AWARDS

1st Place — Hackfest × Datathon 2026, GenAI Module · IBA Karachi   *2026*
Competed against teams from leading Pakistani universities. Score: 88/100.   talhaahmad.vercel.app/certificates/hackfest.png

React – The Complete Guide (incl. Next.js, Redux) · Udemy   *2024*

CSS – The Complete Guide (incl. Flexbox, Grid & Sass) · Udemy   *2024*

The Complete Full-Stack Web Development Bootcamp · Udemy   *2024*