

MUHAMMAD HUZAIFA

Full Stack AI Engineer

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SUMMARY

Full Stack AI Engineer building web applications and AI agents with Next.js, FastAPI, and PostgreSQL. I build autonomous AI agents using the OpenAI Agent SDK, creating custom MCP (Model Context Protocol) tools that connect AI models directly to external APIs and databases. I handle the full build process from UI design to Docker containerization and cloud hosting on Vercel, Render, or AWS.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python

Frontend: Next.js (App Router), React 19, Tailwind CSS, Shadcn UI, HTML5, CSS3

Backend: FastAPI, Node.js, Python (AsyncIO), RESTful APIs

Databases & CMS: PostgreSQL (Neon, Supabase), Sanity CMS

AI & Agents: OpenAI Agent SDK, MCP Server (Python), Tool Calling, Prompt Engineering

DevOps & Tools: Docker, Git, GitHub Actions, Postman, Vercel, Render, AWS

Languages Spoken: English (Professional), Urdu (Native), German (Elementary - A2)

WORK EXPERIENCE

Lead Full Stack & AI Architect | Higlax Solutions — Onsite | 2026 – Present

- Built internal full-stack products and automated AI workflows for client companies using Next.js and FastAPI.
- Set up Vapi voice AI agents and multi-agent tools with the OpenAI Agent SDK, deploying services with Docker.

Frontend Developer | Wewise Labs — Remote | 2025 – 2026

- Built the frontend dashboard and user interfaces for an AI SaaS platform using Next.js and Tailwind CSS.
- Connected web interfaces to FastAPI backend services and deployed cloud hosting on AWS.

Faculty & Technical Instructor | GIAIC — Karachi, PK | 2025 – 2026

- Mentored 1,000+ students in AI engineering, Next.js, and backend architectures; ran weekly code reviews and project workshops.

EDUCATION

- BS Computer Science | Iqra University | 2026 – Present (1st Semester)
- Intermediate in Computer Science | Govt Degree Boys College 5-L | 2024 – 2026
- Matriculation in Computer Science | TCF School — Karachi

PROJECTS

Al-Rafai Clinic — 24/7 AI Patient Appointment Agent | [Live Demo](#) | [GitHub](#)

- Built a 24/7 conversational voice & chat booking agent automating patient appointment scheduling with live doctor calendar sync.

ChatTask (SecureTodoz) — AI-Driven Task Management Platform | [Live Demo](#) | [GitHub](#)

- Developed a full-stack task management app using Next.js, FastAPI, and OpenAI Agent SDK with custom MCP tools.

CogniClose — B2B Outbound Sales Engine & Pipeline Platform | [Live Demo](#)

- Architected a high-speed Next.js web platform with interactive ICP funnels and automated sales pipeline calendar bookings.

Modern Living — High-Speed E-Commerce & Furniture Store | [Live Demo](#) | [GitHub](#)

- Developed a full-stack e-commerce store using Next.js, Sanity CMS, and Stripe integration with an admin management dashboard.

Humanoid AI — Interactive Learning Platform with 24/7 AI Tutor | [Live Demo](#) | [GitHub](#)

- Built an interactive learning platform using Docusaurus and FastAPI with an embedded bilingual RAG AI tutor in English and Urdu.

OpenAI Agent SDK — Autonomous AI Agent Blueprints | [GitHub](#)

- Created 16 production-ready architectural blueprints demonstrating autonomous AI multi-agent handoffs, tool calling, and guardrails.
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CERTIFICATIONS & COURSES

- Prompt & Context Engineering ([PIAIC](#))
- Agentic AI & Full Stack Development — (GIAIC)
- AWS DevOps Engineer (Honhaar Jawan) — In Progress

ADDITIONAL INFORMATION

• **Volunteer Developer & Student Mentor GIAIC**

Mentored 50+ students in Next.js, TypeScript, and backend architectures; led weekly peer debugging, live workshops, and code reviews.

• **Tech Content Creator — YouTube: [@Huzaiifasys](#)**

Publishing tutorials on full-stack web development, Python FastAPI backends, and AI agent engineering.
