

HAMZA SHAKOOR

AI ENGINEER

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SUMMARY

Full Stack Developer with 5+ years of experience building and deploying scalable web applications with React, Next.js, Node.js, and NestJS. Now moving into AI engineering, working on agentic AI systems, RAG pipelines, fine-tuning, and LLM-powered applications. In agentic AI, I build agents that plan a task, call tools such as search or APIs, and work through multiple steps, using LangGraph, the OpenAI Agents SDK, and MCP. Recently built DealDesk, a LangGraph system of eight agents: safety guard, researcher, negotiator, fact checker, limit checker, closer, simulator, and judge. I also build RAG pipelines with ChromaDB and embeddings, and fine-tune open-source models with LoRA/QLoRA.

SKILLS

AI/GenAI: Python, LLMs, Prompt Engineering, RAG, Vector Databases (ChromaDB), Embeddings, Agentic AI (ReAct agents), LangChain, FastAPI, Groq & Ollama APIs

LLM Engineering: OpenAI, Anthropic and Gemini APIs, LiteLLM, tokenization, streaming, tool calling, structured outputs, multimodal models, Gradio, Hugging Face, local models, LoRA/QLoRA fine-tuning, RAG evaluation

Agent Frameworks: OpenAI Agents SDK, CrewAI, LangGraph, AutoGen, Model Context Protocol (MCP), multi-agent orchestration, handoffs, guardrails, tracing

Frontend: ReactJS, Next.js, TypeScript, JavaScript, HTML5, CSS3, Redux Toolkit, Tailwind CSS, MUI

Backend: Node.js, NestJS, Express.js, REST APIs, GraphQL

Databases: MongoDB, PostgreSQL, MySQL, SQL Server, Firebase, Supabase

Cloud & DevOps: AWS (EC2, S3, Lambda), Docker, Git/GitHub, CI/CD

WORK EXPERIENCE

Full Stack Developer | GlobeWyze Inc.

Jul 2025 – Present

- Led development of Fynnexa, a fintech platform for private markets and investor communities, from architecture through deployment.
- Built backend services with NestJS and Node.js, using PostgreSQL and MongoDB for transactional and flexible-schema data.
- Architected REST and GraphQL APIs consumed by React/Next.js front-end applications, keeping data contracts consistent across the stack.

Full Stack Developer | Emergent Software

Jul 2024 – Jul 2025

- Delivered full stack features across React/Next.js front ends and Node.js/Express back ends.
- Designed SQL schemas and MongoDB collections, optimizing queries across both data layers.
- Built REST APIs with Node.js and Express and connected them to React/Next.js front ends.
- Built reusable, responsive UI components and kept data flow between front end and back end consistent.

Full Stack Developer | AlphaSquad

Jul 2023 – Jul 2024

- Built cross-platform desktop apps with Electron, React, Node.js, MongoDB, and Firebase.
- Developed Next.js API routes for CRUD operations and backend business logic, including Three.js-based 3D features.

Front-End Developer | QisstPay

Oct 2022 – Jun 2023

- Improved page load performance and managed complex application state using Redux.
- Built and maintained UI components in close coordination with backend APIs, ensuring reliable data flow.

Front-End Developer | UpTech Sol (SMC-PVT) LTD

Feb 2021 – Oct 2022

- Built reusable components and interactive dashboards using Apex Charts and REST APIs.
- Connected front-end screens to REST APIs and handled loading, display, and updating of live data.

Software Engineer Intern → Associate Developer | Eshagird

May 2020 – Feb 2021

- Started as an intern and transitioned into a full-time front-end development role, contributing to live client projects.
- Built responsive web pages and UI features with HTML, CSS, and JavaScript for client sites.

EDUCATION

SZABIST, Islamabad

Jan 2017 – Feb 2021

Bachelor of Science in Computer Science