

# Haroon Mukhtar

## Senior Full Stack Engineer | AI Engineer

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Full Stack Engineer with 5+ years of experience building high-performance web platforms, collaborative systems, cloud-backed applications, and AI-powered products. Specializing in TypeScript, React, Node.js, AWS, LLM agents, and retrieval-augmented systems.

## EXPERIENCE

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### AIO — Senior Full Stack Engineer

April 2024 – Present

- Built a dual-environment publishing system (Live/Staging) for a no-code restaurant website builder, with protected public APIs and a full website management suite.
- Led the Gatsby → Next.js migration to a more scalable rendering architecture with a strong Core Web Vitals and Lighthouse focus.
- Shipped an analytics dashboard integrating GA4 and Google Search Console APIs; built the templating and drafting system powering rapid site creation.
- Created an image library with editing and optimization pipeline, plus an independent responsive styling engine with mobile-specific CSS overrides.
- Drove ADA-compliant architecture; built collaborative tools with real-time multi-user synchronization and dynamic form builders.
- Automated AWS-driven deployments including domain and SSL provisioning; led product-driven engineering and UX improvements.

### 99 Technologies — Frontend Engineer

Jan 2022 – March 2024

- Joined as sole frontend developer; helped grow and mentor the team's frontend engineering capability.
- Led frontend development of an inventory management system; built the SJ Computers e-commerce frontend with Next.js and Material UI.
- Implemented checkout flows and guest user management; maintained backend APIs for frontend integration.

### 2nd Mouse Venture — Web Developer

Dec 2020 – Dec 2021

- Built an LMS and virtual classroom platform: class scheduling, video and screen sharing, whiteboarding with annotations, and real-time chat.
- Delivered dedicated portals for teacher, sales, and admin roles.

## SELECTED PROJECTS

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**AI Trading Assistant** — LLM-powered financial copilot with streaming chat, portfolio analysis, market/news lookup, and ReAct-style multi-step tool orchestration. LangChain agent framework, ChromaDB vector store for RAG, persistent memory, portfolio CRUD tools.

FastAPI · Next.js · LangChain · Ollama · ChromaDB

**Autonomous Financial-Events Agent** — Autonomous LLM agent (Mastra, TypeScript, Claude) that monitors financial events daily and auto-generates analyst-grade earnings digests and email drafts, integrating multiple external data and productivity services through a deterministic code-orchestrated pipeline.

Mastra · TypeScript · Claude

**Business Operations Management System** — Modular platform for purchasing, shipping, invoicing, and financial workflows with vendor/customer management; monorepo architecture with separated Inventory, Finance, and CRM domains.

TypeScript · React · Node.js · NestJS · PostgreSQL

## SKILLS

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**Full Stack:** TypeScript, ReactJS, NextJS, NestJS, Node.js, Gatsby, Tailwind CSS, Redux, Zustand

**AI & Data Engineering:** Generative AI, RAG Pipelines, Agentic Workflows, LangChain, LlamaIndex, Model Context Protocol (MCP)

**Databases & Infrastructure:** PostgreSQL, MySQL, AWS, Docker, Linux, CI/CD

**Tools:** Git, Claude Code, Cursor, v0.dev, Postman

## EDUCATION & CERTIFICATIONS

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**BS Computer Science** (2017 – 2021)

COMSATS University Islamabad, Wah Campus

- Architecting Solutions on AWS — Coursera (AWS)
- Application Development using Microservices and Serverless — Coursera (IBM)
- AWS Generative AI for Developers — FutureLearn