

Mohammed AlFuhidy

Software Engineer - Full Stack & AI

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Professional Summary

Software Engineer with **3.5+ years of experience** building production-grade, AI-integrated web applications and backend systems. Deep expertise in **Next.js, TypeScript, FastAPI, and LLM Orchestration** - including RAG pipelines, Agentic Workflows, and multi-LLM architectures. Proven ability to deliver measurable performance gains in enterprise environments and a track record shipping features for global clients including **HP**. Strong practical focus on system stability, fast delivery, and clean engineering. Experienced in the Arabic-speaking and Saudi market, with products actively deployed and used in the region.

Experience

Software Engineer at Fastn.ai - Remote (US)

Nov 2023 Jan 2026

- Developed a full-stack **Database Step UI** for enterprise client HP, enabling bulk insertion workflows and significantly improving the operator experience for high-volume data pipelines.
- Diagnosed and resolved a critical **multi-tenant database contention issue** - heavy queries from one tenant were stalling the entire PostgreSQL instance; implemented query isolation and optimization, restoring full stability.
- Led a **full frontend component redesign**, modernizing the UI system for improved consistency, accessibility, and developer maintainability across the product.
- Engineered a **DynamoDB → PostgreSQL migration** for users, projects, secrets, and webhooks - unlocking server-side search, pagination, and filtering capabilities that DynamoDB could not support at scale.
- Built and shipped **three production AI agents**: a Text Summarization Chain, a Prompt System Enhancer, and a Text Classifier - integrated into client-facing LLM orchestration workflows using GPT.
- Implemented a **data sync feature** ensuring consistency between services during multi-step agentic pipeline execution.
- Optimized core UI with **virtualization techniques**, reducing render times by 30% for large datasets.
- Integrated **AI-powered agent workflows** using LLMs (GPT), reducing manual review time for clients by 40%.

Full Stack Web Developer at Core Notion - Sana'a, Yemen

Sep 2021 Feb 2023

- Built and maintained **5+ production web applications** for SME clients using Node.js, PHP, and MySQL, achieving 99.5% uptime.
- Conducted user interviews to identify UX pain points; led a UI redesign that increased user satisfaction scores by **25%**.
- Automated repetitive manual workflows through backend optimization, saving client businesses over **8 hours/week**.
- Built REST APIs and integrated third-party services to support day-to-day business operations.

Featured Projects

JobSea - AI Job Search OS

Next.js 16, TypeScript, Dexie, Gemini AI

<https://jobsea2.vercel.app/jobs>

- Built an **AI-assisted job search operating system** for tracking applications, tailoring resumes, and generating interview prep in a unified workflow.
- Implemented **local-first job management and resume versioning** with Dexie-based persistence, plus AI-powered resume tailoring optimized for practical job-seeking workflows.
- Developed the product using an **AI-accelerated engineering workflow** with OpenCode, Codex, and Kimi for rapid prototyping, debugging, and feature iteration.

Hira - AI Decision Engine

Next.js 15, Gemini AI, Supabase

<https://tryhira.com>

- Designed an **Agentic Decision Engine** using Gemini 2.5 Flash to eliminate decision fatigue in meal planning; tailored specifically to **Saudi and Arabic culinary preferences** and regional food platforms.
- Engineered a **Multi-LLM Fallback Architecture** (Gemini, Llama 3, Kimi k2) with automated routing, achieving **99.9% service availability** and optimized response latency under high-traffic conditions.

Vibecurb - AI Security Auditor

Python, JavaScript, LLM Auditing

<https://vibecurb.vercel.app>

- Engineered an automated pipeline to detect **vulnerabilities and logical flaws** in AI-generated (vibe-coded) code before deployment.
- Combined **Static Analysis with LLM reasoning** to identify hallucinated vulnerabilities and deliver high-fidelity security insights.

Technical Skills

AI Engineering: RAG Architecture, LLM Orchestration (GPT, Gemini, Llama, Claude, open-source models), Agentic Workflows, Prompt Engineering, Vector Embeddings (Pinecone)

Frontend: Next.js 15, React, TypeScript, JavaScript (ES6+), UI Virtualization, Code Splitting

Backend: Python (FastAPI), Node.js, PHP, Java, REST APIs, Data Sync, Performance Profiling

Databases: PostgreSQL, MySQL, Supabase, DynamoDB (migration experience)

Engineering: System Design, Debugging, Performance Optimization, Git, Multi-tenant Architecture

Education

B.Sc. in Business Information Technology at **Twintech University, Sana'a**

2021

First Class Honors - CGPA: **3.96 / 4.00**