

MOJTABA AHMED

SOFTWARE ENGINEER

PROFILE

Backend and AI engineer building production LLM systems: document generation, RAG, deterministic pricing and voice. Strong in Node.js/NestJS and Python/FastAPI, comfortable owning systems from architecture to deployment across telecom, fintech, and landscaping.

CONTACT

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- [GitHub](#)
- [LinkedIn](#)

SKILLS

- Backend: Node.js, TypeScript, NestJS, Express, Python (FastAPI), Frappe, Celery
- Frontend: React, Next.js, Tailwind CSS
- AI/ML: RAG, LangGraph, Whisper Fine-tuning, Vector Embeddings, Speech Processing
- AI APIs & Integrations: Claude, OpenAI, Gemini, ElevenLabs, DeepL, Replicate
- Databases: PostgreSQL, MongoDB, Redis, Qdrant, Neo4j, Sequelize, Alembic, Mongoose
- Infrastructure: Docker, CI/CD, Digital Ocean, AWS, Azure, Linux/Ubuntu
- Tools: Git/GitHub, MITMProxy, Puppeteer, Stripe, n8n

PERSONAL PROJECTS

- PeakTranslate.com**
AI translation platform that lets users upload videos/documents and get translated subtitles, voice-over dubbing, and document translation. Subscription-based with Stripe billing.
- Stocksphoenix.tech**
Stock intelligence terminal that monitors social media for ticker mentions, generates BUY/SELL signals, runs a simulated \$100K portfolio, and produces AI analyst reports.
- Nihongo.page**
Japanese vocabulary learning app using spaced repetition, AI-powered writing feedback, and weekly personalized audio lessons.

WORK EXPERIENCE

Software Engineer, AI & Full-Stack

HeyFlora AI
California, USA (Remote) June 2026 - Present

- Built the AI document-generation platform end to end: field walks, notes and chat become branded Site Walk Reports, JHAs, Change Orders and Maintenance Proposals, with deterministic orchestration, evals, guardrails and human approval.
- Designed a deterministic pricing engine for maintenance proposals: every figure is computed in code, never by the LLM, totals reconcile, and it fails closed when trusted rates can't be resolved. Shipped Standard vs Budget proposals clients can reprice in chat, with row-level locking against concurrent edits.
- Built a white-label 16-page proposal renderer with per-tenant versioned designs frozen onto each sent proposal, so later design changes never alter documents already delivered.
- Extended multimodal RAG on Qdrant: a vision model extracts diagrams and tables from customer documents with provenance and tenant-scoped access, with Claude/OpenAI/Gemini routing under per-tenant LLM budgets.
- Integrated Gmail and Outlook sending with OAuth and Google Drive and OneDrive ingestion; built provider failover, prompt caching and LangSmith cost tracing.

NestJS Backend Developer

Suhub
Riyadh, KSA October 2024 - August 2026

- Developed the platform Communities Section including posting, commenting, voting, polls, and home page feed algorithm, serving 19K+ users with single communities reaching 11K+ members.
- Designed and implemented External Jobs System aggregating 120+ daily jobs, scraped from Indeed, Naukrigulf, Bayt, LinkedIn, and hospital career portals.
- Developed the Research Opportunity feature and multi-channel notification systems with "Quiet Hours" feature.
- Built an E2E testing framework over Puppeteer, adopted by the full frontend team.

Software Engineer (Contract)

Forward Technology
Khartoum, Sudan February 2025 - October 2025

- Architected a self-improving Whisper fine-tuning platform for Sudanese Arabic, where human-verified transcripts are automatically chunked into <30s training segments and pushed to a Kaggle dataset, creating a continuous accuracy improvement loop. Onboarded 6+ clients with 11+ hours of verified audio.
- Built a voice biometric authentication system for call center client verification: speaker enrollment via vector embedding, cosine similarity matching with pitch normalization, and a weekly-recalibrated FAR/FRR decision threshold.
- Built call sentiment analysis for banking and telecommunications clients and an automated English to Arabic video translation pipeline for MTN SD's VOD library.

Full Stack Developer

Strange Logic Ltd.
Seaford, UK April 2023 - December 2024

- Developed a web scraping system processing 130K+ daily records from Trace Genie with relational database storage and API layer for data consumption.
- Developed an API gateway for Replicate AI models supporting 17+ models and 200+ daily users, and N8N nodes consumed in tens of Digital Marketing workflows.
- Built an unofficial LinkedIn API library via reverse engineering and a fully automated AI-powered social media campaign system.

React JS Developer

SolusPay
Khartoum, Sudan July 2022 - January 2023

- Built a web app letting smallholder farmers in South Kordofan and Blue Nile State trade products with direct customers, plus an analytic admin dashboard using React-Admin.