MOHAMED HOSSAM

Full-Stack Web Developer

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PROFESSIONAL SUMMARY

One of the few developers who has shipped 6-service Kubernetes deployments and managed ICU patients in the same week. Full-stack developer with 2+ years of freelance experience building production systems — from real-time Kafka event pipelines to bilingual consumer platforms with 5-figure user bases. The medical training isn't a detour: it's the reason the code ships on time, handles edge cases nobody else catches, and stays maintainable six months later.

EXPERIENCE

Freelance Full-Stack Developer · Self-Employed   *Remote — Egypt | Aug 2024 – Present*

► **100% client retention rate** across 5+ delivered projects — zero clients lost to competitor or dissatisfaction in 18 months of active freelancing.

► **Eliminated manual registration tracking for an academy client** by shipping a multi-step enrollment system with admin dashboard, reducing their admin workload by an estimated 40%.

► **Improved page load performance by ~35%** on a restaurant client's site through Next.js SSG, lazy loading, and image optimization — directly improving mobile conversion.

► **Shipped a bilingual AR/EN platform** with full RTL/LTR layout parity across Chrome, Safari, and Firefox — serving a parent demographic where Arabic-first UX drove adoption.

► Clients span education, F&B, and local retail — consistently bridge technical decisions to non-technical stakeholders without losing either side.

Medical Intern · Zagazig University Hospitals   *Zagazig, Egypt | 2024 – Present*

► Managing 20+ patients/day in high-stakes clinical workflows — brings the same discipline of correctness-under-pressure, zero tolerance for silent failures, and structured documentation to every codebase.

SELECTED PROJECTS

Microservices E-Commerce Platform ★ — *Next.js · Express.js · Django REST · Spring Boot · Kafka · PostgreSQL · MongoDB · AKS · nginx*

► **Solo-architected and deployed a 6-service system on Azure Kubernetes Service** — each service independently scalable, communicating exclusively through Apache Kafka event streams.

► **Designed all 6 service boundaries and API contracts in Figma before writing code,** preventing cross-service coupling and eliminating major rework during the multi-month build.

► **Implemented polyglot persistence strategy:** PostgreSQL for transactional services, MongoDB for catalog/content — matched storage engine to access pattern rather than defaulting to one database.

► Tech stack spans 3 backend runtimes (Node.js, Python/Django, Java/Spring Boot) — demonstrates stack-agnostic thinking over framework loyalty.

Baby Academy — Bilingual Educational Platform — *Next.js · TypeScript · Tailwind CSS · React*

► **Replaced 100% of manual client operations** with a self-service registration flow and admin dashboard — the client now manages enrollments without spreadsheets.

► Delivered full AR/EN bilingual support with automatic RTL switching, responsive across all device types, in a single codebase.

Interactive Portfolio with AI Assistant — *Three.js · GSAP · Framer Motion · n8n*

- ► **Shipped an AI-powered portfolio assistant** built on an n8n automation pipeline — answers visitor questions about projects and skills using a structured JSON knowledge base, with no backend server required.
- ► Combined Three.js 3D scenes with GSAP and Framer Motion; deployed on Vercel with sub-3s load time.

Custom Java HTTP Server — *Java · PostgreSQL*

- ► **Built a zero-dependency HTTP server from scratch in Java** — parses raw HTTP headers, handles path variables, query params, custom body types, and PostgreSQL queries, modeled on Express.js ergonomics.

TECHNICAL SKILLS

Frontend: React · Next.js · Redux · Tailwind CSS · SASS · Framer Motion · Three.js · GSAP

Backend: Node.js · Express.js · Django REST Framework · Spring Boot · Java

Databases: PostgreSQL · MongoDB · Mongoose

Infrastructure & DevOps: Docker · Docker Compose · Kubernetes (AKS) · Azure · Nginx · Apache Kafka

Languages & Tools: JavaScript · TypeScript · Python · Figma · n8n · Git

Human Languages: Arabic (Native) · English (C1 — Full Professional)

EDUCATION

Doctor of Medicine (MBBCh)   *2024 – Present*

Zagazig University · Faculty of Medicine — Currently completing medical internship alongside active freelance development practice.