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SUMMARY

Product Engineer with 4+ years shipping full-stack systems from concept to production. Sole-built a WhatsApp-commerce web platform with admin dashboard, sharded queues, RAG-powered AI support, and multi-provider payments for a live Saudi client. Architected event-driven document platforms with async workers and Redis job pipelines. Led a team to 2nd place in a ministry-wide DEPI competition under Egypt's MCIT. Pursuing AWS Cloud Practitioner.

EXPERIENCE

Sole Engineer & Technical Lead | AZ Parts — Saudi Auto-Parts Platform

Jan 2026 – Present

Full web application + WhatsApp bot + admin dashboard: BullMQ + Redis, OpenAI RAG, multi-provider payments

- **Sole-built a production platform** for a live Saudi auto-parts business: customer-facing web app, internal admin dashboard, and WhatsApp bot flows (part search, checkout, payment links, AI support, order tracking, premium search lifecycle, delivery management) — **coordinating directly with the operations manager and Saudi vendor network**.
- Designed sharded async inbound queue (BullMQ + Redis workers) with webhook signature validation, idempotency guards, and dead-letter capture; integrated **multi-provider payments (EdfaPay + Tamara installments)** with webhook reconciliation, refund workflows, and admin audit logging with export.
- Built retrieval-augmented AI support (OpenAI + pgvector) that **reduced customer-service escalation** with runtime-configurable limits. Deployed on Docker Compose with non-root containers, read-only FS, health checks, Caddy TLS proxy, PostgreSQL 16 + Prisma, and **comprehensive test suites (unit, integration, chaos, load)**.

Frontend Development Instructor & Curriculum Lead | GDG On Campus — Menoufia University

Mar 2026 – Present

8-session hybrid track: HTML, CSS, JavaScript, React, Tailwind, Responsive Design, Deployment

- Designed and delivered a full frontend curriculum to **60+ students** across 8 hybrid sessions (6 online, 2 in-person) using real-world project case studies. Achieved **85% retention** and **4.7/5.0 feedback**; students progressed from zero frontend knowledge to deploying responsive websites.

Full-Stack Product Engineer | PDFSwifter (pdfswifter.com)

May 2025 – Present

Two-service architecture: Next.js app + FastAPI worker API + Redis job tracking, 10+ PDF/media tools

- Architected a two-service platform: Next.js (UI, auth, session management, usage limits) + FastAPI worker API (PDF conversion, compression, async social media downloads via yt-dlp) connected through Redis-backed job tracking with process_id polling and **zero-timeout streaming file delivery**.
- Implemented freemium usage controls (monthly per-tool limits by IP/token/user), signed HTTP-only cookie auth, and a JSON-driven feature flag + reliability gate system for **safe rollout/auto-disable across 10+ utilities**. Containerized with Docker Compose + Caddy.

Team Lead & Full-Stack Engineer | SehaTalk (sehatalk.vercel.app)

Sep – Dec 2025

Now being developed into a healthcare startup

- **Led a 5-member team and won 2nd place in the DEPI graduation project competition** — a **ministry-wide competition under Egypt's Ministry of Communications & IT (MCIT)** across thousands of participants nationwide. Currently developing the product into a startup.
- Built the full platform with role-based auth (patient/doctor), SEO-first SSR, dynamic service pages, and doctor-patient Q&A workflows using Next.js App Router, MongoDB, Radix UI, and Tailwind CSS. Achieved **90+ Lighthouse performance scores** with Arabic-first discoverability.

Frontend Developer (Freelance) | Saudi School Attendance & Discipline System

Oct – Dec 2024

- Built a responsive React.js + Tailwind admin dashboard for a Saudi educational client: attendance tracking, **automated discipline warnings triggered every 5 absences**, and detailed reporting across users, subjects, and sessions. Integrated Swagger APIs for real-time backend communication. **Delivered in under 3 weeks**.

Freelance Web Developer | ITIDA National Freelancing Initiative

Jun – Sep 2024

- Delivered **multiple client-facing web solutions** (React, Node.js) as part of Egypt's national gig initiative, including a project for an **international client**. Managed concurrent projects, client communication, version control, and production-ready deployments in a remote setting.

Machine Learning Intern | National Telecommunication Institute (NTI)

Feb – Apr 2024

- 120-hour program: **led a 3-member team and presented the graduation project** — Movie Genre Classifier achieving **93% accuracy** (TF-IDF + Random Forest, 5K+ movie dataset), Cancer Detection ensemble, CNN Flower Recognition. Deployed via Streamlit.

EDUCATION

B.Eng. Computer Science & Engineering | Menoufia University

2023 – 2028

Faculty of Electronic Engineering | GPA: 3.15 / 4.00

CERTIFICATIONS

- AWS Cloud Practitioner — In Progress (Expected 2026)
- Backend Web Mentor — NASA International Space Apps Challenge, Shebeen El-Kom (Oct 2025)
- Freelancing Certificate (International Client Delivery) — ITIDA Gigs (2025)
- InnovEgypt — Innovation & Entrepreneurship (45 Hours) — TIEC, 2026
- Machine Learning Certificate — National Telecommunication Institute (NTI), 2024
- Frontend Web Development — Digital Egypt Pioneers Initiative (DEPI), 2025

TECHNICAL SKILLS

Languages: JavaScript, Python, C/C++, TypeScript, HTML5, CSS3, SQL

Frontend: React.js, Next.js (App Router), Tailwind CSS, Radix UI, Responsive Design

Backend: Node.js, Express.js, FastAPI, REST APIs, BullMQ, Event-Driven Architecture, Auth (RBAC)

Databases: PostgreSQL, MongoDB, Redis, Prisma, pgvector, Firebase

AI/ML: OpenAI API, RAG (pgvector), Scikit-learn, Pandas, NumPy, TensorFlow, NLP, Streamlit

DevOps & Cloud: AWS, Docker, Docker Compose, Caddy, Git, GitHub, Linux, CI/CD

LANGUAGES

Arabic (Native) | English (Fluent)