AZMY AYMAN AZMY

AI & Machine Learning ·

Cairo, Egypt | +20 127 786 5428 | azmyayman010@gmail.com | in/azmy-ayman | github.com/azmyayman-maker

PROFESSIONAL SUMMARY

Full-stack software engineer with hands-on experience building production-grade SaaS platforms, desktop applications, and web systems. Proficient in Python, Django, Next.js, TypeScript, and PostgreSQL with demonstrated expertise in system architecture, REST API design, real-time WebSocket communication, geospatial computing, and payment integration. Google AI Certified professional with a strong foundation in machine learning, deep learning, and local LLM integration. Passionate about shipping well-documented, open-source software that solves real-world problems.

PROJECTS

Wateen — Home Healthcare SaaS Platform

2025 – Present

Full-Stack Enterprise SaaS · HealthTech

Python · Django 5.2 · DRF · Next.js 14 · TypeScript · PostgreSQL + PostGIS · Redis · Celery · Docker · Stripe Connect · WebSocket

- Architected a multi-tenant B2B2C platform enabling licensed agencies to manage nurses and patients to book geo-verified home visits across Egypt.
- Engineered a real-time geo-spatial dispatch engine using PostGIS polygon matching and Redis GEOSEARCH for nearest-nurse assignment.
- Integrated Stripe Connect escrow with automated 85/15 revenue split, eliminating manual financial reconciliation.
- Implemented Egyptian MoH Law 151/2020 compliance: consent logs, PII masking, right-to-erasure pipeline, and 72-hour breach alerting.
- Enforced security hardening: Argon2 hashing, JWT with token blacklisting, HSTS, strict CORS, and Django Channels WebSocket events.

Ayman Management — Titanium Edition

2024 – v2.0.0

Desktop Application · Construction FinTech

Python · PySide6 (Qt6) · SQLAlchemy 2.0 · SQLite · Ollama (Qwen3:8b) · ReportLab · openpyxl · arabic-reshaper

- Built a full-featured offline Arabic RTL desktop ERP for construction project management: budgets, invoices, contractors, risk tracking, and attachments.
- Integrated local AI assistant (Qwen3:8b via Ollama) with streaming HTTP responses for zero-cloud intelligent project analysis.
- Implemented multi-format export (PDF, Excel, Word) with correct BiDi Arabic rendering using arabic-reshaper + python-bidi.
- Modelled a 4×4 risk matrix with probability/impact scoring across 5 risk categories and full mitigation-plan tracking.

L'ELITE — Fine Dining Restaurant Website

2024

Frontend Web Application

HTML5 · CSS3 · JavaScript ES6+ · Firebase Auth · Cloud Firestore · Firebase Hosting

- Developed an 8-page responsive luxury restaurant website with Firebase Auth (email + Google OAuth), route-guard protection, and Firestore CRUD for live reservations.
- Designed a centralized CSS design-token system enabling site-wide dark/light theme switching without modifying individual stylesheets.

WORK EXPERIENCE

Construction & Finishing Specialist

2019 – 2024

Self-Employed — Family Construction Business · Cairo, Egypt

- Supervised execution of multiple concurrent residential finishing projects, coordinating contractors, tracking budgets, and ensuring quality standards.
- Managed end-to-end project finances: contractor invoicing, cost tracking, and financial reporting — domain expertise that drove the creation of the Ayman Management ERP.

EDUCATION

B.Sc. Computer Science & AI

Capital University, Cairo

GPA: 2.95 / 4.0 · Year 1

Sept 2024 – Present

CERTIFICATIONS

Google AI Professional Certificate

Google · Credly Verified

7-course program · 20+ AI project artifacts

AI Mastering — ML & DL

Udemy · 50.5 hrs · June 2026

Claude 101

Anthropic · Verified

HP LIFE — Entrepreneurship

HP Foundation · Verified

ICIP — OPSWAT Academy

OPSWAT · Cybersecurity

EF SET English — B2

EF Education · Certified

LANGUAGES

Arabic	Native
English	B2 (Certified)

OPEN SOURCE

3 production-grade public repos with full PRD documentation, WBS roadmaps, and architecture diagrams. Code quality enforced via Ruff, flake8 & pytest.