# Mahmoud El-Sherbiny

Cairo, Egypt | +20 1004006770 | mahmoud.elsherbiny.work@gmail.com
LinkedIn | GitHub

## Professional Summary

Software Developer with experience delivering full-stack applications, RESTful APIs, and database-driven solutions. Contributed to a healthcare ecosystem of 3 applications serving doctors, pharmacists, and patients, and engineered enterprise-style solutions using Flutter, Spring Boot, and PostgreSQL. Skilled in application development, system design, database integration, and problem-solving, with additional experience integrating AI capabilities into production software. B.Sc. in Computer Science, GPA 3.72/4.0.

## Technical Skills

**Programming Languages:** Python, Java, Dart, C++, SQL, TypeScript

**Software Development:** Flutter, React, FastAPI, Flask, Spring Boot, RESTful APIs, Full-Stack Development, Application Architecture

**Databases:** PostgreSQL, Firebase Firestore, SQLite, MariaDB

**Tools & Technologies:** Git, GitHub, Docker, Linux, Firebase, Google Cloud, Pandas, NumPy

**Additional Expertise:** Machine Learning, NLP, LLMs, RAG, OCR, AI Integration

**Languages:** Arabic (Native), English (Fluent)

## Professional Experience

**MedDigi-Verse** **Feb 2024 – Present**
*Co-Founder and Software Engineer* *Alexandria, Egypt*

- Contributed to the development and delivery of 3 interconnected healthcare applications: Atlas for healthcare professionals, ElRosheta for digital prescription access, and Instabook for doctor discovery.
- Integrated AI-powered prescription processing achieving 92%+ OCR accuracy and semantic pharmaceutical search across a catalog of 25K+ products.
- Collaborated with a 20-member cross-functional team spanning AI/ML and full-stack development to deliver features across the healthcare application ecosystem.

**Edafa Telecom Solutions** **Jul 2025 – Aug 2025**
*Software Engineering Intern* *Cairo, Egypt*

- Engineered a real-time health-monitoring dashboard using Flutter, Spring Boot, PostgreSQL, and RESTful APIs, connecting mobile interfaces with backend services.
- Implemented role-based access control (RBAC) for 5 distinct user roles in a market-simulation application, enabling role-specific access and workflows.

**PSCwork** **Feb 2025 – Jul 2025**
*Client Relationship Manager* *Remote*

- Managed onboarding and support for 200+ clients, resolving service issues and coordinating with teams to maintain consistent client operations.

## Projects

**HackOps – AI Cybersecurity Platform (GitHub)** **2025 – 2026**

- Architected a full-stack platform using Flask, React, MariaDB, and Docker, integrating scoring, logging, and leaderboard modules.
- Optimized a Recurrent PPO-based attack framework and integrated a Qwen2.5-7B model using LoRA fine-tuning and 4-bit quantization, achieving a 10% improvement over baseline within 500K training steps.

**JobFit – AI Career Copilot (GitHub)** **2026**

- Designed an automated job-matching pipeline integrating Apify, multi-factor scoring, and Gemini, achieving 100% Precision@5 and 0.942 NDCG@5.
- Validated evidence-grounded resume tailoring across 225 evaluations, achieving 100% fact preservation and 0% unsupported claims.

## Education

**Egypt-Japan University of Science and Technology** **Jun 2026**
*Bachelor of Science in Computer Science, GPA 3.72/4.0* *Alexandria, Egypt*

- Relevant Coursework: Data Structures and Algorithms, Database Systems, Distributed Systems, Software Engineering, Deep Learning, and Natural Language Processing.

## Leadership

**IEEE Computer Society – EJUST** **2024 – 2025**
*Head of AI and ML Community* *Alexandria, Egypt*

- Led a 10-member team, mentored 100+ students, and organized 6+ technical workshops, strengthening technical knowledge and collaborative learning.

## Certifications

Machine Learning Specialization - DeepLearning.AI & Harvard University - DEPI Generative AI Track