

# Marc Zaki

Cairo, Egypt | Phone + 201006045683 | [sherifmark759@gmail.com](mailto:sherifmark759@gmail.com) | [LinkedIn](#) | [Github](#)

## EDUCATION

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### Modern Sciences and Arts University (MSA)

B.S of Computer Science

Graduation Date: Jun 2027

## WORK EXPERIENCE

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### Olin.Stores

Business Development / Customer Relationship

Jul 2023 - Sep 2023

- Managed all social media accounts
- Managed all customers' feedback

## COURSES AND ACHIEVEMENTS

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**AWS Educate** : Introduction to Cloud 101, Getting Started with Storage, Getting Started with Compute & Getting Started with Networking.

**Deep Minds 3** : Oodo and Enterprise Resource Planning (ERP)

**IBM:** Code Generation and Optimization Using IBM Granite

**MaharaTech - ITI** : Introduction to MongoDB

**Huawei:** HCIA-AI V4

## PROJECT EXPERIENCE

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### OurHealthEG

ERP System using Odoo - Deep Minds 3 Award Winner

May 2024 - Jul 2024

- **Facilitated access to hard-to-find, life-saving medicines** for underserved patients.
- **Provided medicines at a base price** with no added taxes to ensure affordability.
- **Ensured equitable access to treatments**, regardless of financial or geographical challenges.
- **Delivered a safe, efficient, and compassionate service** focused on patient well-being.

### Cairo to Capital Transport

Full Stack Website - Nominated for Deep Minds 4

Nov 2024 - Dec 2024

- **Led the development of a ticketing platform** for a multimodal transportation system, enabling seamless travel between Cairo and the New Administrative Capital using the LRT train, Metro Egypt, and Mwaslat Misr.
- **Applied OOP principles and design patterns** to enhance the code structure and maintainability, ensuring robust and scalable software development.
- **Utilized HTML, CSS, JavaScript, PHP, and SQL** to create a user-friendly and fully online ticket purchasing process, improving convenience and accessibility for users.
- **Successfully streamlined the ticket buying process**, reducing the need for physical tickets and long queues, while enhancing the overall user experience.

### Hotel Management System

Console Application (C++)

Feb 2025 - Jun 2025

- Developed a **console-based hotel booking system** with **guest/admin login, room management, and booking features**.
- Implemented **data persistence** using **file I/O** and **dynamic data structures (linked lists)**.
- Included **admin dashboards** for **occupancy tracking** and **income reports**.

### SeamCarve Pro: Content-Aware Image Resizing

Python, OpenCV, Numba, CustomTkinter, Flask

Start Date - Finish Date

- **Awarded 1st Place** at the DeepMinds 6 Competition (February 2026) for developing a high-performance image optimization tool.
- Engineered a content-aware resizing algorithm from scratch utilizing **Dynamic Programming** to calculate and remove minimum-energy seams without distorting key image subjects.
- Implemented **Forward Energy cost** calculations to prevent artifacts and optimized execution speed using **Numba** and **OpenCV**, achieving real-time processing capabilities.

- Designed an accessible user interface using **CustomTkinter** and built a **Flask** visualization to demonstrate the algorithm's step-by-step logic.

### **Secure P2P Chat Application**

*Full-Stack Application - Flutter, Python, MongoDB*

*Nov 2025 - Jan 2026*

- **Engineered** an end-to-end encrypted, peer-to-peer messaging system, developing both the Python/Flask backend API and the Flutter/Web frontend to support 6 platforms (Android, iOS, Web, Windows, macOS, Linux).
- **Architected** a zero-knowledge hybrid encryption pipeline (RSA-2048 and AES-256), processing cryptographic operations natively on the client side via Dart to ensure the backend acts strictly as a blind router.
- **Managed** complex cross-platform state using the Provider pattern, maintaining persistent local message histories, real-time presence indicators, and seamless UI experiences across desktop and mobile.
- **Built** custom TCP socket implementations bridging Python and Dart to handle direct peer handshakes.

### **SKILLS & INTERESTS**

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**Skills:** Problem-Solving, Collaborative, Eager to learn, Effective Communication, Adaptability, and Teamwork.

**Interests:** Web Development and Software Development.