

# Marslino Edward Helmy

## AI Engineer

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### CAREER OBJECTIVE

AI & Software Engineer proficient in machine learning, computer vision, and full-stack development with React, Django, and FastAPI. I build AI-driven and cross-platform applications using Flutter, and deploy scalable solutions while teaching and working on projects during my Bachelor's degree in Computer Science.

### EDUCATION

**Bachelor's degree**, El - Shorouk Academy  
Major: Computer Science  
Grade: Excellent

2022 – present  
Egypt

### EXPERIENCE

**DEMI Coding Instructor**, iSchool  
Hybrid full-time instructor teaching programming concepts to students aged 6 to 18.

06/2024 – present  
Egypt

**ML Engineer**, CodSoft, Infotech  
Experienced in different real projects like customer churn prediction, movie genre classification.

01/2024 – 03/2024  
Internship, Remote

**Data Entry Clerk**  
Strong attention to detail and organizational skills, achieving **80 WPM** with **98%** Acc.

02/2023 – 11/2023  
Cairo, Maadi

### CERTIFICATES

**Full stack Diploma, Route**  
• Foundations in **Frontend Development**: HTML, CSS, JavaScript, Bootstrap, jQuery, React.  
• Foundations in **Backend Development**: Django, FastAPI, MySQL, Firebase.  
• Learned **Deployment**: hosting with Heroku, Vercel, and GitHub pages.

01/2025 – 06/2025

**Deep Learning Scholarship, ODC L1&2&3**  
• Advanced DL concepts: NN, CNNs, RNNs, LSTMs, and optimization.  
• TensorFlow and PyTorch, applying models to computer vision and NLP tasks.  
• Completed capstone projects demonstrating model development, evaluation, and deployment.

08/2024 – 01/2025

**Flutter Development Course, Udemy**  
• Learned cross-platform mobile development.  
• Built practical apps covering all software concepts.  
• Gained experience in publishing and structuring scalable mobile applications.

04/2024 – 09/2024

**AI Diploma, Instant**  
• AI Algorithms and Techniques.  
• Practical Application and Model Deployment.  
• Data Analysis and Problem Solving.

07/2023 – 02/2024

**Software Engineering Scholarship, ALX - Africa**  
Strong communication and collaboration skills essential in dynamic environments.

12/2022 – 07/2023

### SKILLS

**Programming Languages**  
Python, Dart, C, C++ and C#.

**Database Management**  
SQL, SQLite Knowledge, Firestore

**Data Visualization**  
Tableau, Power BI, matplotlib, seaborn, plotly.

**Problem Solving**  
Critical thinking skills to identify and solve complex programming challenges.

**Teaching**  
Delivering clear and engaging coding instruction, adept at simplifying complex concepts.

PROJECTS

Computer Vision Junior Projects, +20 projects

- Sudoku Scanner Solver  
Developed a system that scans Sudoku puzzles from images and solves them using computer vision techniques, enabling users to quickly find solutions to their puzzles.
- Real-time Object Detection by YOLO:  
Implemented a real-time object detection system using the YOLO (You Only Look Once) algorithm, allowing for efficient identification and tracking of multiple objects in live video streams.
- Gym Self Coach  
Created a fitness application that serves as a virtual personal trainer, providing users with customized workout plans and tracking progress to enhance their fitness journey.
- Hand Gesture Volume Controller  
Designed a hand gesture recognition system that allows users to control volume levels on devices through intuitive hand movements, promoting a hands-free interaction experience.

Mobile Development Junior Projects (Flutter), + 12 projects

- Social Media App  
Full social app with real-time posts, likes, and chats, everything you'd expect from a modern feed.
- Saint of Silence – Matchmaking Game  
1v1 online card game with real-time matchmaking and custom design. A multiplayer experience with its own middle-age vibe.
- QR Attendance App  
A simple app to scan QR codes and log attendance directly to Firebase. Clean, fast, and perfect for quick check-ins.
- Just Chat (Terminal Edition)  
A chat app with a fun twist mimics a command-line terminal but works with live messages.

Full-Stack Development Junior Projects (Native & React), +15 projects

- Interactive chatbot agent  
web chatbot powered by JavaScript logic.
- Typing Speed Test (Monkeytype Clone)  
Real-time typing speed tracker with scoring and feedback

ACTIVITIES

- Head of AI, Google Developer Student Clubs (GDSC) 01/2024  
Guiding and educating undergraduate students on the latest developments in AI.
- Kaggle Notebook Master, Ranking 343 out of 61,479 developers on Kaggle 03/2024
- ICPC Competitor, Twice won my university finals participated in the ECPC competition. (2023, 2024)  
Competed in programming challenges, collaborating with a team to solve problems under time constraints.

SELF-STUDY & INDEPENDENT LEARNING

- |   |   |
|---|---|
| <b>Deep Learning by Ian Goodfellow</b><br>Explored foundational theory in neural networks | <b>Hands-on Machine Learning</b><br>Practical ML & DL projects with Scikit-Learn, Keras, and TensorFlow |
| <b>Grokking Algorithms</b><br>Simplified complex data structures & algorithms             | <b>Schaum's Outline of Discrete Mathematics</b><br>Studied core logic, set theory, and combinatorics    |
| <b>Learn Python 3 the Hard Way</b><br>Practiced Python through rigorous exercises         | <b>Clean Code</b><br>Improved software design and maintainability practices                             |

LANGUAGES

- |                |                 |
|----------------|-----------------|
| Arabic: Native | English: Fluent |
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