

Mohamed Abd Elsamiea

Full Stack Web Developer

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Alexandria/ Cairo, Egypt

PERSONAL STATEMENT

As a senior in Computer Engineering, I'm dedicated to practical problem-solving and continuous learning. Passionate about leveraging technology for positive societal impact, I'm eager to upskill through internships. Flexible for remote or on-site roles, I bring a strong work ethic and collaborative mindset to every project.

EDUCATION

B.S., of Computer Engineering

Egypt Japan University in Egypt | 2020 - 2025 GPA: 3.2

Course Work: Data Structures and Algorithms, Databases, Operating Systems, Compilers, Distributed Systems, Computer Architecture

KEY COMPETENCIES

Languages: C, C++, Python

Tools: Scikit-Learn, OpenCV, NumPY

Frameworks: Flask, React, Django

Databases: MySQL, PostgreSQL, SQLite

PROJECTS

Arabic Sign Language Translator

Python

OpenCV, NumPy, Scikit-Learn, Tkinter

- Designed a ML model with Random Forest Classifier to translate Arabic sign language with 93% Accuracy.
- Built a GUI with Tkinter for deployment and usability in diverse applications (e.g., chat systems).

Student Attendance App

Python - Flutter

Face_Recognition, NumPy, OpenCV, Scikit-Learn, Flask

- Built a mobile application to record student attendance for more than 60 students computer vision.
- Implemented a Support Vector Machine (SVM) model for face recognition with 98% Accuracy.
- Developed the back-end in Flask and front-end in Flutter, enabling Excel export functionality.

Full stack Grocery Store App

Python - Flutter

PostgreSQL, Flask

- Developed a web app with features like search, filtering, and automatic discounts based on item expiry
- Integrated user authentication (login, logout, password recovery) and cart management.
- Used PostgreSQL for the database and Flask for the back-end with more than 20,000 records in the database.

CERTIFICATIONS

CS50: Introduction to Computer Science, Harvard

Online Introductory course on computer science that teaches students to think algorithmically and solve problems efficiently.

CS50W: Web Programming with Python and Javascript, Harvard

Online course that dives into design and implementation of Web apps using Python, Javascript, and SQL using frameworks like Django, React, and Bootstrap.

EXTRACURRICULAR ACTIVITIES

Member, Logistics Committee, Student Union 2023

Organizer during orientation days, Student Interviews and Entry Exams.

Mentor, Academic Committee, EntreprenEve, AVAD 2018

This project aimed to empower females joining the entrepreneurship world.

Member, Protons 16, IEEE Alexandria Student Branch 2016

Project that aims to introduce programming to middle schoolers