

Amr Hussain Elsayed

Python Software Engineer

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SUMMARY

Honors Computer Science graduate recognized by Egypt's President for academic excellence. Skilled in Python, Django, and AI frameworks like TensorFlow and Karas. Experienced in building web and computer vision projects, eager to contribute as a Python Software Engineer.

Work Experience

Computer Science Teaching Assistant, Sohag University.

April 2024 - Present

- Conducted interactive lab sessions for 40+ students, delivering practical labs on Algorithms and OOP.
- Helped in creating and updating coursework materials, including assignments and projects.

Education

Python Web Development, Intensive Code Camp.

December 2024 - April 2025

Information Technology Institute (ITI)

BSc in Computer Science, Sohag University, GPA: 92/100 .

October 2019 - June 2023

Relevant Coursework:

- Theory of Algorithms
- Object-Oriented Programming
- Data Structures
- Artificial Intelligence

Projects

Deep Sequential Neural Network

Built A dynamic deep neural network from scratch using Python and NumPy with vectorized operations. It features a configurable number of layers options for choosing the optimizer and regularize type.

Smart Eye Identifier (Graduation Project)

A smart attendance system developed on a Raspberry Pi that uses facial recognition to track attendance. It captures images of unauthorized individuals and streams real-time videos. I used Dlib, python, and Tkinter GUI.

Crowd-Funding web application

A Django-based web application that enables users to create, manage, and support small-scale crowdfunding campaigns. [Github Link](#)

Movie Explorer Web Application

A movie browsing website using React, integrating the TMDb API. Included features like search, viewing movie details, and adding movies to a personalized favorites list. [GitHub Link](#)

Arabic Sign Language Alphabet Classifier

Utilized MobileNet model using transfer learning to recognize and classify ASL alphabet using Keras API. Achieved validation accuracy of 99.67%. [GitHub Link](#)

Skills

Technical Skills:

- **Front-End:** JavaScript, HTML5, CSS3, Bootstrap, React, jQuery, Ajax
- **Back-End:** Django, Flask, Django REST Framework, Odoo, Apache, Git, Docker, Bash Script
- **Data:** SQL, Postgres, Pandas, NumPy
- **AI:** TensorFlow, Karas, LangChain, OpenCV, Raspberry Pi, Matplotlib

Soft Skills: Leadership, Curiosity, teamwork, dedication, information research, time management, tutoring

Languages: Native Arabic speaker, proficient English speaker