Ezzat Esam Eisawy

Senior Communication and Information Engineering Undergraduate.

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- October Gardens, 6th of October City, Giza, Egypt

EDUCATION

Zewail City of Science and Technology

Giza, Egypt   2019 – 2024

BCS, Communication and information engineering

GPA : 3.6/4.00

Honors

- Provost's Honors Rol (2019 - 2020)

COURSEWORK

- Machine learning
- Deep learning
- Artificial intelligence
- Data structures and algorithms
- Database Management Systems
- Computer vision
- Software engineering

LANGUAGES

- Arabic · native
- English · proficient

TECHNICAL SKILLS

- Machine learning
- Data cleaning and visualization
- TensorFlow and PyTorch
- DotNet (C#)
- Flutter
- React with Typescript
- Java
- Restful API
- FastAPI and Flask
- Docker
- Azure pipelines and Devops
- Github
- SQL
- MongoDb
- Firebase
- Linux
- C/C++
- OOP
- Latex
- Game development with Unity and Godot
- Arduino and Raspberry pi

SOFT SKILLS

- Agile (Scrum) development
- Design patterns
- Problem solving

PROJECTS

MPEG Encoder/Decoder

Python, NumPy, and OpenCV

- Implemented the H264 standard encoder and decoder for video compression/decompression with varying compression ratio up to 97%.

Restaurant management application

WinForms, C#, and MSSQL

- Developed a desktop application that can be used to operate a smart restaurant.
- Allowed for client/chef interactions like ordering, billing, and inventory management.

Siamese networks for face detection

Python and TensorFlow

- Implemented a deep learning project that compares facial features using Siamese networks to detect and recognize faces with 98% accuracy.

Scene recognition using Python and CV2 with the SIFT algorithm

Python and OpenCV

- Developed an image processing project that uses Scale-Invariant Feature Transform (SIFT) algorithm to recognize and classify different scenes in input images.

Freelancing website

Flask and SQLAlchemy (Python)

- Built a full stack website for a freelancing platform.
- The website allows users to browse and apply for jobs or create them. It also allowed for users to accept jobs and upload/download files, Manage their profile and skills and more.

Pumbkin chaos - A top down 2d shooter game

Godot and C#

- Developed a game for an online game jam and ranked the 46th over 370 submissions.
- The game utilized various mechanics and features including increasing difficulty, various enemy types, a leveling system and more.

BADGES AND AWARDS

Applied Data Science Lab badge   2023

WorldQuant University

- completing eight applied data science projects involving data cleaning, exploration, ETL pipelines, machine learning models, and visualizations.

Hacktrick 2024   2024

Dell technologies

- Participated in Dell's 2024 hackathon with a team of 4.
- Won 1st place in the professional track.