Mohamed Hossam

Contact

Phone

01097135909

Email

mohamed2001hoss@gmail.com

Location

EL Narges Buildings, New Cairo

Date of Birth

8/4/2001

Skills

- **Problem Solving**
- Critical Thinking
- **Flexible and Adaptable**
- Teamwork and Collaboration

Programming Languages

- Java
- JavaScript
- Python
- SQL
- React
- Flutter
- HTML/ CSS

Languages

English

Arabic

German

About Me

I am a Last-year computer science student at the GUC, and I am passionate about web development, application development, AI, and Machine Learning. My main goal is to pursue a career in these fields. Actively seeking Job opportunities that will allow me to apply my knowledge, learn from experienced professionals, and enhance my skills.

Education

German University in Cairo

Bachelor of Engineering Candidate

Expected to graduate June 2024

GPA : 1.29 (GUC GPA) equivalent to 3.807 or A

Relevant courses : Web Development , Software Engineering, Object Oriented Programming

Egyptian American International Schools

High School Diploma

Jan 2017 - Jun 2019

Objectives

- Eager to explore the exciting field of machine learning.
- Looking forward to building responsive and user-friendly websites or applications
- Interested in learning new technologies, programming languages and frameworks

Projects

Translation Office Application

The application facilitates a platform for translators to sign up and indicate their language pairs for translation. Clients can also register and submit translation requests, specifying the desired languages and timeframe. An admin, aided by software, assigns the translation task to an available translator who can either accept or decline the assignment.
Bachelor Project implemented in the 8th semester.
Implemented using Flutter, Nodejs, and MongoDB.
Link : https://github.com/hoss4/translation_office_flutter
Link : https://github.com/hoss4/app_server

Online Learning website

An online learning platform enables teachers to create courses with videos, exercises, and exams. Students can register for courses, access course content, and solve practice exercises. An admin oversees teacher and student issues. Implemented in the 7th semester.
Implemented with MERN Stack (MongoDB, Express, React, and Node).
Link : https://github.com/Advanced-Computer-Lab-2022/Hollow-Knight/tree/final

Online Virtual Clinic Software

Software for clinics, doctors, and patients to automate the interactions between patients and medical doctors including finding a doctor, scheduling meetings, conducting online meetings, getting prescriptions, getting reminders, and accessing medical history, this includes extracting requirements of software by writing user stories and creating an interactive mockup for software using Marvel app (Prototyping tool). Implemented in the 6th semester.

Optimizing SQL Queries

Given queries and the Database schema, We improve the performance of SQL queries by using the appropriate indices and analyzing those queries to improve their performance by tuning the database engine and writing a better version of each using PgAdmin and PostgreSQL. Implemented in the 6th semester.

Database for a postgrad system

A system that keeps track of students' postgrad studies, manages their prerequisite courses for their postgrad studies, and registration for masters or Ph.D., includes drawing the EERD of the system, translating the EERD into its corresponding relational schema then implementing it using SQL with the needed procedures and creating a website that connects to the database to perform the different functionalities. Implemented in the 5th semester.

Conquerer Game

A single-player turn-based empire-building game using Java and Object Oriented Programming principles, includes creating the needed packages, classes, methods, exception classes for exception handling, and a GUI for the game. Implemented in the 4th semester.

CPU Caching System

A simplified CPU Cache system that works by retrieving data given the addresses of the data and successfully updating the cache upon the data retrieval. Implemented in the 4th semester.
Implemented Using prolog and Haskell.

Online Shopping Website

A simple shopping website, where users can create an account, log in, search for products, and add products to their cart. Implemented in the 5th semester.
Implemented using JavaScript, HTML, and CSS

Internships

Collecting data Samples for Machine Learning

In this Internship, we were required to collect multiple audio data samples of humans speaking in the Arabic language with different emotions such as anger, happiness, sadness, etc. We collect samples and label them with the appropriate emotion. The samples are then used to train a model on how to recognize emotion from sound.
The internship was conducted with the GUC.

QNB Summer Internship

During this internship, we've gained a lot of technical skills.For instance, we learned about important technical concepts related to networks and security. We also got hands-on experience in fixing PC hardware issues and using Linux for managing databases. Moreover, we understood how ATMs and Point of Sale (POS) systems work. We even learned about applying Oracle SQL in real bank scenarios. Additionally, we received essential advice on how to enter the workforce successfully.

Inovasys RPA Internship

In this internship, we learned how to use Microsoft Power Automate online and Desktop to automate business process this includes many operations such as extracting data Web pages, pdfs, Images, Files and Documents. processing them to automate business processes. We also learned some technical aspects such as IPA, Documents understanding, Work Queues and Regular Expressions.