Peter Atef

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Software Engineer

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Education

Cairo University

Sep. 2019 - Present

Graduation Year: 2024

Bachelor of Computer Engineering, GPA: 3.5 of 4

Technical Skills

Programming Languages: C++, Python, JavaScript, C, Dart,

Mobile development: Flutter, React-Native.

Data Analysis: NumPy, Pandas, Matplotlib, OpenCV, Scikit-learn

Databases: MySQL.

Others: Microsoft Office, MATLAB, Github, Linux

Relevant Coursework

OOP

• Data Structures

Algorithms Database

• Probability and Statistics

Image Processing

Computer Architecture

• Machine Learning

• Operating systems

 Agile methodology (Scrum)

Clean Code

• Computer Graphics

Flutter

Problem-Solving

React-Native

Experience

ITI Egypt 08/2022 - 09/2022

React-Native Summer Training

remote

• Learning React-Native fundamentals: dealing with mobile UI, Context, Redux • Building Todo app. Project Link

• Building e-commerce system. Project Link

• Certificate Link

NVIDIA 2022

Machine learning workshop

remote

 Learning from real machine learning engineering working at NVIDIA by applying on the supervised learning's pipeline using NVIDIA GPUs.

• NVIDIA DLI Certificate for the successful completion of Fundamentals of Deep Learning. Certificate Link

ITI Egypt 09/2022 - 10/2022

AI Summer Training

remote

- Learning Linear algebra fundamentals.
- · Learning Probability fundamentals.
- Learning Machine-learning fundamentals.
- Learning deep learning basics.
- Certificate Link

The National Telecommunication Institute (NIT)

07/2021 - 08/2021

AI Summer Training

Learning data analysis using Python using Numpy, Pandas, and Matplotlib

- Learning how to deal with supervised learning models.
- Certificate Link

Projects

Reddit Clone | Flutter, Dart, Bloc, Agile, Github

Project Link

remote

- Participated in developing the front end of a mobile application for Android using Dart and the Flutter framework.
- We were a team of 25 members containing backend, cross-platform, and DevOps sub-teams.
- Collaborated with team members using version control systems such as Git to organize modifications and assign tasks.
- My Role: System Authentication, Searching module, Setting, Unit testing
- Skills: Responsive Mobile app and website Bloc Design Pattern- Unit Testing Teamwork.

Project Link

E-Commerce System | React-Native, JS, Context, Redux, Axios, Async-Storage, Github, Expo • I built an online Store that gets the product using API and gives you the option to add and remove them to your cart to buy them.

Virtual Calculator | Image processing, OpenCV, machine learning, Python.

Project Link

- Machine learning project to build a hand-detection project to detect the numbers and the arithmetic operations...
- We used SVM as a machine learning model and we got an accuracy of 90 percent.
- My Role: pre-processing "image enhancements", Accuracy Calculations

Color detector | Pandas, OpenCV, Python.

Project Link

• I built a color detector for videos and images program using OpenCV and Pandas.

Search Engine | Java, OOP, Data Structures, Threading, MongoDB

Project Link

- Build a Search Engine using mainly three components Crawler, Indexer, and Ranker.
- My Role: I worked on the Indexer which is a pre-processing before storing the data in the DB, and I participated in building the website.
- we got first place among all teams in this project because of the high performance of the code and how it manages the resources.

OS scheduler | C, Linux, Algorithms, Data Structure

Project Link

- Utilized an operating system scheduler and Memory Management that scheduled different processes using the Shortest Remaining Time Next (SRTN), Highest Priority First (HPF), and Round Robin algorithms.
- My Role: I was the team leader of this project. I was responsible for building the structure of the project and implementing HPF and RR algorithms.

Hospital management | C-sharp, SQL, MySQL, Database

Project Link

- Building a Hospital Windows application system.
- System capabilities: Handle multi-users, Handle the privileges of each user, Make appointments for the patient, and Keep track of the patient's medical history.
- My Role: I participated in building the DB scheme, I built screens like doctor, nurse, and patient screens.

Logic Simulator $\mid C++, OOP, Data Structure$

Project Link

- Built the application mainly for designing and simulating circuits, as well as saving, copying, cutting, pasting, restoring, undoing, and redoing actions.
- Dealt with several object-oriented programming (OOP) concepts, including polymorphism, inheritance, abstraction, and encapsulation.

Five-stages-RISC-Pipelined-processor | Computer Architecture, Verilog, Problem Solving

Project Link

- Simulation to Processor Hardware using Verilog program and Model-Sim.
- My Role: I was the team leader for this project I designed the interface between different modules and how they will communicate with each other- I designed the instruction set - I built the decode stage in the project - I participated in building the core module that handles the interactions with different modules.

Projects in Progress

- Hand Gestures: machine learning model to detect the numbers constructed with a hand with pre-processing on the image to enhance the accuracy which is the most challenging part because the data set is so noisy. The pre-processing part highlights elimination and thresholding to extract the hand. In the feature extraction part, we use HOG and PCA. We use SVM as our machine learning model. The project isn't finished so You won't find it on my GitHub account.
- Game Engine: Building a game engine using C++. The project isn't finished so You won't find it on my GitHub account.

Honors / Awards

Orange Digital Center (ODC)

summer 2022

Certificate Link

- Project Link * I got a fourth place over about 50 other students in the Competitive Programming Hackathon by Orange Digital Center
- * The competition was on a website called Coding Game on a game called Spider Attack.

Certificates (*Link*)

Flutter Course on Udemy

2022

72 hour course

Certificate Link

Python Course on Mahra-Tech

2023

Online Course

Certificate Link

Web development basics on Udacity

Certificate Link

February 2022