

PETER ATEF

Software Engineer

Giza, Egypt

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Education

Cairo University

Bachelor of Computer Engineering, **GPA: 3.5 of 4**

Sep. 2019 – Present

Graduation Year: 2024

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

remote

- 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

- 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.

E-Commerce System | React-Native, JS, Context, Redux, Axios, Async-Storage, Github, Expo

Project Link

- 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 <i>Image processing, OpenCV, machine learning, Python.</i>	<i>Project Link</i>
<ul style="list-style-type: none"> 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 <i>Pandas, OpenCV, Python.</i>	<i>Project Link</i>
<ul style="list-style-type: none"> I built a color detector for videos and images program using OpenCV and Pandas. 	
Search Engine <i>Java, OOP, Data Structures, Threading, MongoDB</i>	<i>Project Link</i>
<ul style="list-style-type: none"> 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 <i>C, Linux, Algorithms, Data Structure</i>	<i>Project Link</i>
<ul style="list-style-type: none"> 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 <i>C-sharp, SQL, MySQL, Database</i>	<i>Project Link</i>
<ul style="list-style-type: none"> 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 <i>C++, OOP, Data Structure</i>	<i>Project Link</i>
<ul style="list-style-type: none"> 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 <i>Computer Architecture, Verilog, Problem Solving</i>	<i>Project Link</i>
<ul style="list-style-type: none"> 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.
- Game Engine:** Building a game engine using C++.

Honors / Awards

Orange Digital Center (ODC)	summer 2022
<i>Certificate Link</i>	<i>Project Link</i>
<ul style="list-style-type: none"> * I got a fourth place over about 50 other students in the Competitive Programming Hackathon by Orange Digital Center in C++. * The competition was on a website called Coding Game on a game called Spider Attack. 	

Certificates (*Link*)

Flutter Course on Udemy	2022
<i>72 hour course</i>	<i>Certificate Link</i>
Python Course on Mahra-Tech	2023
<i>Online Course</i>	<i>Certificate Link</i>
Web development basics on Udacity	February 2022
<i>Certificate Link</i>	