PETER ATEF

Software Engineer

Giza, Egypt

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Education

Cairo University   **Sep. 2019 – Present**

Bachelor of Computer Engineering, ***GPA: 3.6 of 4 (Excellent Grade)***   *Graduation Year: 2024*

Technical Skills

Programming Languages: C++, Python, JavaScript, C, Dart,
AI / Data analysis : NumPy, Pandas, Matplotlib, OpenCV, Scikit-learn
Prompt Engineering: Langchain, Agents, Chains, OpenAI
Mobile development: Flutter, React-Native, Kotlin.
Web development: HTML, CSS, PHP, Javascript, Laravel
Databases: MySQL, Firebase, MongoDB.
Others: Microsoft Office, MATLAB, Github, Linux

Relevant Courses

- OOP
- Data Structures and Algorithms
- Harvard CS50's Database
- Operating systems
- Image Processing
- Harvard CS50's Artificial Intelligence with Python
- NLP
- Networks
- Probability and Statistics
- Discrete Math
- Computer Architecture
- Machine Learning
- Flutter
- React-Native
- Agile methodology (Scrum)

Experience

VNCR Media Group   **1/7/2023 - 1/10/2023**

Generative AI Internship   *England - remote*

- It's a great experience to be part of a company outside Egypt and to have the chance to work on very interesting projects and meet new people from all over the world.
- **Technology used:** Langchain, Agents, Chains, OpenAI, Python.
- Completion Certificate: **Link**

Ejada   **4/7/2023 - 17/8/2023**

Mobile Development Internship   *Egypt - on-site*

- I'm a member of a mobile development team that is required to build complex mobile apps using React-Native and Android Kotlin.
- We built a lot of apps like Mnara El-Seha as a hospital system app. GitHub Repository
- Completion Certificate: **Link**

NVIDIA   **2022**

Machine learning workshop   *Egypt - remote*

- Learning Fundamentals of Deep from engineers 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**

React-Native Summer Training   *Egypt - remote*

- Learning React-Native fundamentals: dealing with mobile UI, Context, Redux
- Building Todo app. **Project Link**
- Building e-commerce system. **Project Link**
- **Certificate Link**

ITI Egypt   **08/2022 - 09/2022**

AI Summer Training   *Egypt - 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 | *Egypt - remote*
- Learning data analysis using Python using Numpy, Pandas, and Matplotlib
- Learning how to deal with supervised learning models.
- **Certificate Link**

Software Development Projects

KidAI | *Unity, Agile, Python, C sharp, machine learning, Github* | **In development**
- This is the graduation project that I'm currently working on which is a tool that teaches machine learning to kids from 8 to 18 years old using games!!
- The idea is to go through the machine learning pipeline starting from creating the data set and going through the training and validation process then testing the machine learning model inside the game environment.
- Skills: Responsive Mobile app and desktop - Unit Testing - Teamwork.

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 twenty 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.

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.

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.

Vector Database Indexer | *python, Algorithms, Data Structure* | *Project Link*
- Main function is to search and retrieve the most relevant vectors concerning the input query.
- The challenge is to build an indexer that optimized in memory and time and achieved that using vectorized techniques and algorithms like IVF, LSH.

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 in C++.
- The competition was on a website called Coding Game on a game called Spider Attack.

Cairo University: Faculty of Engineering | **Spring 2023**
Certificate Link | *Project Link*
- My team and I got first place in Maze solving competition and second place in the line follower competition.
- The first competition was to build a car that follows the track line in minimum time and the second competition was to use the car to solve a maze in minimum time using the shortest route.
- **My Role**: I participated in building an Android native mobile application using Java to send a signal to the car representing the speed level of the car. The app was required to send a high-speed signal to the car whenever there is a straight line and a low-speed signal whenever there is a curve.
- **Technology used**: Java, OpenCV, Image Processing

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 **February 2022**
Certificate Link