Peter Atef

Software Engineer

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Education

Cairo University	**Sep. 2019 – Present**
*Bachelor of Computer Engineering, **GPA: 3.6 of 4 (Excellent Grade)***	*Graduation Year: 2024*

Skills

Programming Languages: Java, C++, C, Python, R, JavaScript, Dart
Data analysis: NumPy, Pandas, Matplotlib, OpenCV, Scikit-learn, Streamlit
AI: Keras, PyTorch, Langchain, OpenAI, Hugging Face, Vector databases, Streamlit.
Mobile development: Flutter, React-Native, Kotlin.
Web development: HTML, CSS, PHP, Javascript, Laravel
Databases: MySQL, Firebase, MongoDB.
Developer Skills: MATLAB, Github, Linux, SOLID, clean code
Soft skills : Microsoft Office, Teamwork, Presentation Skills.

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
- Neural Networks
- Flutter
- React-Native
- Agile methodology (Scrum)
- Parallel Computing
- Big Data

Experience

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**

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 have the chance to work on very interesting projects and meet new people worldwide.
- **Technology used:** Langchain, Streamlit, OpenAI, Python, chromeDB, Faiss.
- Completion Certificate: **Link**
- Recommendation Letter: **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

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 a 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.

Logic Simulator | *C++, OOP, Data Structure*   *Project Link*
- Built the application mainly for designing and simulating circuits and saving, copying, cutting, pasting, restoring, undoing, and redoing actions.
- Dealt with several object-oriented programming (OOP) concepts, including polymorphism, inheritance, abstraction, and encapsulation.

Honors / Awards

NVIDIA   **summer 2022**
Machine learning   *Certificate Link*
- 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.

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*)

React-Native the practical guide on Udemy   **2024**
29 hour course   *Certificate Link*

Flutter Course on Udemy   **2022**
72 hour course   *Certificate Link*

Python Course on Mahra-Tech   **2023**
Online Course   *Certificate Link*

FrontEnd Certificate from Udemy   **2024**
6 hour course   *Certificate Link*

Web development basics on Udacity   **2022**
20 hour course   *Certificate Link*