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Objective

A motivated Junior Full Stack Engineer, seeking to use proven skills in coding and debugging. I am interested in providing efficient solutions for software problems, creating software products in different business fields, and working on large-scale projects.

Education

Bachelor's degree in computer science, Ain Shams University

2023

Work Experiences

Full Stack Web Developer Internship (.Net & Angular) at Dsquares – Cairo, Egypt

August 2022 – October 2022

- As a Full Stack Developer intern at Dsquares Company, I had the opportunity to work with .NET Framework and Angular to develop robust web applications. During my internship, I was responsible for designing and implementing scalable solutions for various projects.
 - I gained extensive experience in front-end development using Angular, integrating APIs with best practice. Additionally, I worked on back-end development using .NET Framework, where I developed RESTful APIs and implemented database models.
 - Throughout my internship, I collaborated with a team of developers and learned how to effectively communicate technical ideas and solutions. Furthermore, I was able to apply agile methodologies such as Scrum to ensure timely delivery of high-quality products.
 - I Had hands on Mondelez Website I worked on adding some features on database of the website and worked on consuming the Api's in the angular application to fetch the data and rendering it.
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Projects

• **Neurophone - Realtime - Brain Mobile Interface (Graduation Project)**

- aims to allow humans to control their phones with their minds, by using an electronic (Emotiv Headset) device that can capture the brain signals and then using deep learning convert this signal into commands that mobile the flutter app can consume to do some tasks.

I was responsible for:

- Developing a flutter application that is based on a flashing sequence paradigm which will be in contact with a deep learning model through some API's.
- Handling Api's with Flask Library which passes the result of the classification of brain signals to the flutter application.
- Labeling the dataset which the deep learning was dependent on, in real time to differentiate between target and no target rows of brain signal readings.

• **Marketplace Website (.Net & Angular)**

- A Website that enables users to place an order consisting of the displayed products.

- I worked on creating the Restful Api's with Asp.net and applying onion architecture that handling insertion, updating, and deleting order from the cart, using Role Based Authorization, to make the endpoint that can handling products only accessible with admins to add products, update it or delete it.
 - It includes endpoints that handling user Registration and User Login.
 - Involves using Entity Framework Core, and SQL Server Database to handling the infrastructure.
 - I Worked on Creating Angular Application that consume the marketplace Api's, with best practices using observables.
 - The SPA includes using Reactive Forms to handle use registration and login, Routing, AUTH Guard, Pipes, Dependency Injection.
- **APPLAI ASU Website (Angular)**
 - I volunteered to create an angular website for student activity to display students' projects and introduce this student activity departments and activities with best practices.
 - It Includes Using: Routing, Making Http Requests to An Appi, Observables, Dependency Injection.
- **APPLAI Student Activity Workshop Api's (.NET)**
 - I volunteered to create Restful Api with .NET for a student activity. This API decodes the QR codes and registers the student attendance, this API has been Integrated with a flutter application.
 - It involves using LINQ, Entity Framework Core, and SQL Server.
- **Airline Ticket Price Prediction (Machine Learning, Vanilla JavaScript, Python)**
 - I was responsible for deploying the website that was created using HTML, CSS, and JavaScript, and for the backend (Flask) with Python.
- **University System (.NET)**
 - .Net Restful Api's with Entity Framework Core, LINQ, and SQL Server to handle instructors' sections and schedules.
- **Spotify Clone(.NET)**
 - A (C#) project using (.Net Framework) and oracle database, with windows forms, that has all functionalities of Spotify.
 - All the data is loaded on the database that has been created from scratch by oracle using SQL and PL/SQL.
 - Crystal Reports has been used to give a brief overview of the specific artist with his albums and songs, and for a specific listener and his playlists.
- **Image Color Quantization**
 - An algorithms project with (.Net) the idea is to compress a range of values to a single quantum value. This is achieved by finding the minimum spanning tree between the distinct colors found in the image, clustering them with the desired k Clusters (based on the user choice), finding the representative color for each cluster, then mapping all colors to their representative.
 - Prim's algorithm was used to find the minimum spanning tree faster.
 - All algorithms that are used in the project have been handled so it takes just a minute to quantize the color of the big pictures with the desired number of k Clusters.
- **Facebook Clone**
 - A (C++) GUI application, based on OOP Concepts and careful selection of data structures, with all functionalities of Facebook

- Using QT Creator, C++.
- **IOT Smart Parking System**
 - Designed and developed a Smart Parking System using IoT technology to optimize parking space utilization and reduce traffic congestion. The system included sensors installed in parking spots to detect the availability of space and relay real-time information to a centralized database accessible through a mobile application. The project involved programming in Python and integrating various hardware components such as C programming language, Arduino, and ultrasonic sensors.
 - Skills demonstrated: IoT development, sensor integration, data management, programming in C.
- **Parallel Median Filter**
 - C# project using MPI Library to distribute the work on the cores of processor using multi-processing.
 - The median filter is a non-linear digital filtering technique, often used to remove noise from an image or signal.
- **FOS Operating System**
 - (C language) I Have Worked on implementing the (Malloc) Method Which Allocate Memory Dynamically on Heap, using best fit strategy to get the best memory location which prevents fragmentation I have written an algorithm to get the best memory location in $O(n)$ complexity, regard to virtual memory, also worked on (Free) method which deallocates memory.

Awards

- **ACM Problem Solving Student Activity**
- **Certificate of Appreciation with 1st Rank “The best Project” In Machine Learning Course**
- **Ranking 80th at ECPC Qualification Contest “Competitive Programming”** August 2022

Skills

Technical Skills:

- **Technologies:** .Net, Entity Framework, LINQ, Angular, SQL, PL/SQL, SQL Server, Oracle Database, MySQL.
- **Programming Languages:** C++, Java, C#, C, Python, JavaScript, TypeScript
- **Core:** Data structures, Algorithms, Object-oriented Design (OOD), Object-oriented Programming (OOP), Design Patterns.

Soft Skills:

- Problem Solving, Communication, Collaboration, Quick learning, Critical thinking, Self-learning, Self-motivation.
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