Ahmed Mohammed Amer

Software developer with 2+ yrs exp in Full Stack Development

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Objective

To obtain a full-stack developer position in a fast-paced, innovative company where I can use my skills in web development, programming, and data science and knowledge to develop innovative, efficient and high-quality software that solves real-world problems

Relevant Skills

`React` `HTML` `CSS` `Tailwind` `JavaScript` `Python` `FetchAPI` `TypeScript` `Docker` `Linux` `Git` `FastAPI` `PostgreSQL` `Machine Learning` `OpenCV`

Education

Ain Shams University   **Cairo**
Bachelor Degree in Engineering   **2023**

Graduation Project (Grade: A+)

The project revolved around creating a smart solution that would improve the campus by utilizing the Internet of Things (IoT). I decided implemented a system that automatically registers students for attendance, eliminating the need to waste time or disturb lectures.

Frontend Application (React)   **Live link**

- Student upload images used for the facial recognition machine learning model by OpenFace
- Create dashboard for the users to view the attendance for each lecture and attendance rate
- Protect routes for logged in users and special routes for admins
- Admin access to create courses manually adjust attendance if needed

Backend Server (FastAPI)

- Design a Restful API that handles the incoming request
- Design a backend that could handel the various request that is submitted by the user
- Manage users login and sign up request using Json Web Tokens for authorization
- Create middleware to process the images and store the identifying feature for each user
- Create routes for login, sign up, authentication, upload image, add or delete courses, and IP cameras

Deployment (Azure)

- Frontend (React) is deployed on vercel.com
- Set Up a VM on microsoft azure as a web server
- Configure Nginx to control ports 443 and 80
- Set up the linux environment with all required dependencies

Relational Database (PostgreSQL)

- Design the database that stores all data and attribute for students and course
- Set up all necessary relation to maintain data integrity

Leadership

Student Representative

- Student Representative for 80 students where I help facilitate the communication between the teaching staff and the students and helped organize for multiple events

ASU Racing Team

- Media Team member with 100% project completion rate
- Render and design formula-1 Car and Design Banner, roll-up and Social media posts

Experience

Systel (Motorola)   **Smart Village 2022**
Internship
 – Design an access point system using Link Planer and make basic configuration and give an IP address
 – Install Optic fiber cables, make connection and test using laser and power meter
 – Aligning the microwaves for a clear line of sight point to point (antennas panning)
 – Design and configure surveyance systems by setting up switches, cameras, NVR or DVR

National Telecommunication Institute   **Smart Village 2021**
Internship
 – Create deploy and manage Virtual Machines across clusters of Hosts
 – Create storage system for the virtual machines
 – Create security group and administrative level for managing the virtual machine
 – Used KVM, CNA and Linux

Projects

Careem Landing Page Clone   Live Link
I have created a clone of the Careem landing page. The landing page was responsive and mobile-friendly, and was built using the latest front-end technologies. I was able to create a landing page that was visually appealing and easy to use.

World Wide Recipe   Live Link
This website allows users to search for and view food recipes from a variety of sources. The website uses an API to access the recipes, which means that the recipes are always up-to-date. Users can filter the recipes by cuisine, ingredient, or dietary restriction.

Gradgen   Live Link
A web app that allows the user to enter the number of colors that they want and the angle of rotation the they the image to be then generate a random linear gradient with the given and allow the users to download the linear gradient as an image

Student Inc Landing Page   Live Link
I have successfully developed a landing page with an eye-catching design and user-friendly features for our Student Inc project. The landing page aims to promote our project and encourage visitors to learn more about what we do.

Social Media App (Instagram Clone)
Designed a social media app that is inspired by Instagram. The App include authentication and a real time data base using server less cloud technologies

Photo Search App
This App that uses pixabay API to search images based on keywords that the user inputs, once the images are retrieved the images are displayed on your screen.

Covid-19 (Virus) Simulator
This project aims to simulate virus spreed among a group of people in different zones. The zones limit the spread of the virus because of lower number of sick in each zone

News Summary App
News app that uses Next JS to utilize server side rendering that includes fetch the date and rendering the html page then pushing it to the client

Runner/Mario Video Game
Developed a 2D Mario Like game with character and enemies with complex enemy generation and check for objects collision with each other

Programming Skills

 – Proficient Languages (Python, JavaScript, C++, HTML, CSS, Dart)
 – Proficient Frameworks (Flutter, React, Flask, FastAPI, Next JS)
 – Proficient in GIT version control (GIT)
 – Powerful skills in API development, specifically for web use
 – Experienced in Unix/Linux environment and Bash scripting.
 – Experienced with ORMs (SQLalchemy)
 – Working Knowledge of databases (MySQL, postgreSQL)
 – Object Oriented Programming and Functional Programming
 – Great Documentation Skills
 – Strong communication expertise and interpersonal skills