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K A R E E M Hamouda

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EMPLOYMENT

Military Reserve Officer/Full Stack Developer   Egyptian Military   **April 2022 – April 2024**
- Maintained various confidential web applications, web services, web APIs and worked with servers and military networks.
- Developed a File Sharing System for the unit I served at using the unit's Server and internal network that can filter different ranks, roles, and departments.
- Tutored Military Officers on the basics of ASP .NET and MVC Design pattern.

Full Stack Developer/Unity XR Instructor   412Labs   **Nov 2021 – April 2022**
- Developed a Custom Shirts project using MERN stack and React Three.JS, which allows users to customize their own shirts using different fabrics and textures and view them in 3D.
- Participated in tutoring students and graduates in Development using Unity Engine, by working onsite and giving online lectures using different VR tools (HTC Vive, Meta Quest, AR and more).
- Recorded online video tutorials and lectures on VR/AR technical development.
- Worked on a VR workshop training Artists and Graphic Designers with no technical background on Unity.

Course Creator/Instructor   Nimblebot   **Fall 2020**
- Had a partnership with Coursera through Nimblebot where I've created and published courses that uses guided projects on the Coursera platform.
- Published two guided projects Introduction to C++ Programming: Build a Calculator & Introduction to C++ Programming: Create a Tic-Tac-Toe Game by developing small projects with over 4000 learners.

Coach/Instructor   Ministry of Communication and Information Technology   **Jul 2019 – Aug 2019**
- Had a partnership with the Egyptian Ministry of Communication and Information Technology as a problem solving and programming instructor.
- Taught from the basics of C++ and Problem Solving to advanced algorithms and topics like Graphs and Dynamic Programming to younger students to compete at the EOI/IOI.
- Got 4 students to successfully compete in the EOI among 100 students winning 2 silver medals.

EDUCATION

Ain Shams University   **Faculty of Computer and Information Science**   **Sep 2017 – Jul 2021**
- Bachelor's Degree in Computer Science.
- **GPA**: 3.14.

PROJECTS

Audiophile Ecommerce Web Application — React, Node, Express, MongoDB, TypeScript, Chakra UI
- Developed a full-stack ecommerce web application for electronic audio devices
- Made it tablet and mobile responsive

Kanban Task Management Application — React, Node, Express, MongoDB, TypeScript, Chakra UI
- Developed a full-stack task management application with simple responsive UI.

VSCode Themed Portfolio — React, TypeScript, Chakra UI
- Developed a personal portfolio with the Visual Studio Code theme

GameHub — React, TypeScript, Chakra UI
- Developed a web application to display the latest games using the rawg.io API and implementing different features in it.

Blockchain Based E-Voting System (Graduation Project) — MERN Stack, Ethereum
- Worked with a team on developing an electronic voting system based on the Blockchain technology using an Ethereum virtual wallet to castand handle votes as transactions in the Blockchain.
- Developed the backend side of the project with Node.JS, Express.JS and MongoDB.

Vidly — Node.JS, Express.JS, MongoDB, Jest
- Developed a backend application for renting movies using Node.JS.
- For route handling, Express.JS was used alongside MongoDB using Mongoose.
- For testing, Jest framework was used for unit and integration testing.

ADDITIONAL EXPERIENCE AND AWARDS

- **EOI Coach Medal:** For mentoring students and having them compete in the Egyptian Olympiad in Informatics problem solving competition among 100 students and getting silver medals.
- **Top 13 best OOP Project:** Competed against 100 other teams and got top 13 by making a 3D Monopoly game with Java.
- **Top 13 best Electronics Project** Competed against 100 other teams and got top 13 by making a Morsecode device with Arduino.
- **Event Organizer at Gamers Lounge** Helped organize one of the biggest gaming events in Egypt.

Languages and Technologies

- React.JS;Node.JS; Express.JS; Mongoose; ASP .NET;TypeScript; JavaScript; C++; Python; Java; C#; SQL;MVC;
- VS Code; Visual Studio; Microsoft SQL Server; Eclipse; Code::Blocks;