

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

[VSCode Themed Portfolio \(Under Development\)](#) — 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 cast and 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;