

YOUSEF MAREY  
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## HIGHLIGHTS OF QUALIFICATIONS

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**Independent learning:** Reading many documentations of programming languages and frameworks has made me more efficient at retrieving and implementing knowledge

**Critical Thinking:** Letting my mind wander around a problem for a certain period of time allows for a solid understanding of the problem, making it easier to solve

**Accountability:** Acknowledging that I have made a technical or non-technical mistake and taking responsibility for it is something I have learned throughout my education

**Adaptability:** As someone who has lived in 4 continents, I have learned to be adaptable to different work-environments such as scheduling my time around daily power-cut offs to understanding different work ethics around the world

## EDUCATION

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### Bachelor of Computer Science

Sept 2023 – Present

Future University in Egypt

- High School Honors Scholarship Provided by Future University in Egypt
- GPA: 3.85 / 4.0

## EXPERIENCE

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### Frontend Engineer

July 2023 – Present

Fitness Hub

Cairo, Egypt

- Built a backend on Firebase designed to authenticate users to ensure the only way to receive the products is to purchase
- Effectively used OpenAI's Chat Completions API using prompt engineering and fine-tuning to provide a cheap yet high-quality health consultation to clients
- Implemented a landing page that is designed to support women on their health journey
- Clearly outlined business requirements with executives using UML that provided 0 major misunderstanding and only few minor misunderstandings

### Teaching Assistant

July 2024 – Aug 2024

SpimeSenseLabs

New Capital, Egypt

- Passionately introduced and taught Internet of Things (IoT) concepts to children aged 12-17 by using efficient and effective analogies, resulting in students developing a passion for IoT themselves
- Used SpimeSenseLabs's application enablement platform to produce software code that is endorsed by course instructors for its simplicity for children unaware of programming concepts
- Dedicated time and effort to support struggling students that resulted 100% satisfaction of **all** students

## Major Projects

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### Robot Mailing System

- Used System Analysis to provide a comprehensive technical understanding of a village, which is composed of a connected graph with 14 nodes, each with their own state.
- Compared algorithms online, such as Dijkstra's algorithm, by analyzing the time taken to complete 100 instances of the village.

### Arduino Garden

- Efficiently used the built-in SoilSensor library to measure the soil's moisture to signal when water should be rinsed.

- Spent a certain period of time thoroughly reading SoilSensor's documentation to get an overview on how I can use their tools effectively.

#### **Egg Programming language**

- Understood the mechanisms of scripted programming languages in order to develop a scripted programming language using JavaScript.
- Made use of Regex and error-handling in JavaScript to be able to parse "Egg" code.

#### **Open Source Contribution (Forem & Qwik)**

- Submitted successful and merged pull requests by learning concepts, libraries, and languages in a short-period of time
- Efficiently used Git to view the repository's history, submit appropriate commits, and manage my local code version history
- Tackled GitHub issues in a systematic manner where I efficiently learn concepts and tools involved in the issue, brainstorm potential reasons for the issue, and research solutions

#### **Easybank**

- Implemented a vanilla JavaScript project from frontendmentor.io resulting in a significant understanding of DOM manipulation
- Developed the skill of asking appropriate and good questions when needed on Stack Overflow or elsewhere

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#### **High School Mathematics Tutor**

**November 2020 – August 2022**

- Mentored passionate high school students in mathematics by analyzing and implementing their learning-style along with being emotionally supportive during exam and non-exam seasons.

#### **Go Education**

**May 2020 – August 2021**

*Vice President of a non-profit Educational Organization*

- Managed and supervised 80+ members to optimize as much public benefit as possible resulting in thousands benefitting from our resources
- Provided a safe and somewhat informal community that motivates members to provide as much public-benefit
- Resolved internal conflicts throughout the organization by combining professionalism and emotional intelligence to clearly understand and find solutions to conflicts

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### **INTERESTS**

**Travelling:** Whether its eating exotic fruits in rural Egypt or practicing my Dutch in Belgium, every country in the world amazes me in some way

**Music:** I am never shy to share my unique music taste that is built from many cultures around the world

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### **Technical Skills**

**Programming:** JavaScript, C++, Python, HTML/CSS, Typescript, Angular, Git, Node.js, MySQL, RESTful APIs, Qwik

**General Tools:** Visual Studio, Microsoft Office, Git & GitHub, Desmos, Chrome DevTools, ChatGPT, Figma