Omar Osama

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EDUCATION

German University in Cairo (GUC)   **2020 – 2025**

B.S. with Honors in Computer Science and Engineering
GPA: 1.25 (German Scale) (A)

EXPERIENCE

Junior TA at GUC (Part-time)   **October 2022 – December 2022**

- Worked as a Junior TA for the Course CSIS104: "Introduction to Computer Science for Pharmacy & Biotechnology" where I mentored students and taught them problem solving techniques during their weekly programming lab sessions.

PROJECTS

Sports Association Website   **2022**

- Built a Full-Stack website that allows a Sports Association to manage its activities online. Used **ASP.NET** Core framework with **C#** to implement the system's website and **SQL** to implement the system's database.

Personalized Travel Guide   **2022**

- Built a Full-Stack website that helps people discover more about their desired destinations and keep track of their interests by adding locations they like to their "want-to-go-to-list". The website was implemented using **Node.js**, **Express.js**, **HTML&CSS** and **MongoDB**.

Marvel Themed Board Fighting Game   **2021**

- Worked on implementing a Marvel themed turn-based 2-player board fighting game using **Java**'s Object-oriented features as well as Java Swing for Implementing the UI of the game. The objective of the game is to defeat your opponent by attacking and defending with your Superhero characters that have unique powers and abilities on a "5x5" board.

Sudoku Solver   **2021**

- Implemented a Sudoku Solver using **Java** that takes as input any partially filled sudoku board and outputs the solution to this board. The solver uses the Backtracking algorithm to efficiently solve any 9x9 sudoku board.

SKILLS

Programming Languages

- Java, Python, SQL, HTML & CSS, Haskell, Prolog.

Programming Skills

- Object-Oriented Programming, Data Structures, Algorithm Design, Design Patterns, DBMS, Problem Solving.

Spoken Languages

- Arabic(Native), English(Fluent), German(Elementary proficiency)