Karim Hesham

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Education

German University in Cairo (6th Semester) (Third year)
BACHELOR OF ENGINEERING, SCIENCE IN COMPUTER SCIENCE AND ENGINEERING

Cairo, Egypt
2020 – present

Al Wadi International School
IGCSE

Jeddah, Saudi Arabia
2008 – 2020

Projects

Marvel Game (Java, JavaFX)

- Developed a 2-player battle game using Java OOP with a focus on creating a hierarchy of classes and objects.
- Created an interactive GUI for the game using JavaFX, which received an award for outstanding design.

Match Management relational Database System (SQL, C#, ASP.NET)

- Designed an EERD and created a relational database model using SQL to store and extract data for a sports management system.
- Developed a user-friendly web application using C# and ASP.NET that connected seamlessly to the database.

Client/server-based web application (JavaScript, Node.js, Express, MongoDB)

- Designed and developed a client/server-based traveling website using JavaScript, Node.js, Express for the backend implementation.
- Ensured seamless integration between the frontend and backend, providing users with a smooth and intuitive experience.

Database Engine (Java)

- Designed and implemented a database management system using Java and various data structures to optimize query processing
- Incorporated OctTree indexing and other performance optimizations to ensure efficient and reliable data access and retrieval.

Music Creation and Audio Processing program (Python, NumPy, Matplotlib)

- Developed a music creation and audio processing program using Spyder to manipulate frequency and cancel noise.
- Employed advanced techniques such as Fourier transforms to accurately plot graphs in frequency and time domain

Extracurricular Activities

Game Design Development member at VGS (Vector Game Studios)
2022 – present

- club for teaching game development on unity using C# programming language
- attended weekly session to learn C# and game development
- working on developing a major game project with members of the club

HR member at IEEE student branch
2022 – present

- Created reports for club meetings
- monitor members performance and tracking their interactions in the club
- Interacted with people from different majors and got to study their personalities

Ushered in The GUC-Ulm quantum technologies conference and workshop
21/11/2022 – 23/11/2022 (3 days)

- professors from Germany, Egypt gave lectures and workshops related to quantum technologies
- was responsible for welcoming German professors from the university of Ulm, Stuttgart and other universities
- made sure the conference went smoothly and was responsible for helping any foreigners

Certifications

Meta Back-End Developer Professional Certificate, (In progress) 9 course program
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Skills

Programming Languages: Java, Python, JavaScript, C#, SQL, VHDL, HTML, CSS
Languages: Arabic: native language, English: fluent read, written, spoken, German: Fair read
Programming Applications: Eclipse, Spyder, PsPice, Unity, Visual Studio, Git, Modelsim, Quartus Prime, MongoDB