

# Mazen Ashraf Ramzy

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## Education

### Sahara International School

Graduated from IGCSE system with GPA 97%

### German University in Cairo

Major in Media Engineering & Technology

Courses :- Embedded System Architecture, Operating Systems, Computer Architecture, Software Engineering, Data Structures and Algorithms, Analysis and Design of Algorithms, Theory of Computation, Computer Organization and System Programming, Concepts of Programming Languages, Databases II, Introduction to Databases, Introduction to Communication Networks, and Digital System Design.

Graduate in year 2025

## Projects

### Marvel Themed Game- *JAVA OOP*

- Developed a marvel themed turn based game that utilized all aspects of object oriented programming in java including inheritance , abstraction and polymorphism.
- Developed a GUI for the game using Java Swing Library

### Virtual Pharmacy and Clinic Website - *MERN Stack*

- Worked on developing a fully functional website using the MERN stack that allows the users to virtually interact with professional doctors using a video call or chat system in order to reserve appointments, receive medical prescriptions and purchase pharmaceutical products conveniently.
- Utilized contemporary technology to improve healthcare services, delivering a smooth and user-friendly experience for both patients and healthcare providers. Additionally, established an integrated platform to streamline pharmacy-related services.

### Football Ticket System - *Full Stack*

- Developed a complete web application encompassing a robust ticket system for football matches. The platform addresses the requirements of fans and diverse user roles, including

club representatives, stadium managers, sports association managers, and system administrators.

### **Operating System Simulation – Java**

- Designed a Java-based simulation for an operating system, incorporating the development and oversight of processes. The simulation encompassed the scheduling and execution of threads within these processes.
- Developed the process control block (PCB) to oversee the state and details of each process, encompassing elements such as the process status, program counter, registers, and memory allocation.

### **Database Engine - Java**

- Created a database engine that incorporated the use of Octree indices , the project involved the creation of tables , the insertion and deletion of tuples , the execution of linear searches and generating octrees as required.

### **Car operated by Voice commands – C and MicroPython**

- Assisted in creating a car operated by voice recognition and implementing a collision avoidance algorithm by using Arduino RP2040 ,Raspberry Pi Pico and various sensors in addition to incorporating a communication protocol between them.

## **Extra-Curricular Activities**

### **Model Of European Union Ain Shams University**

- I have participated in the Model of European Union in Ain Shams University for 2 years as both a junior and senior delegate then as a teaching secretariat in 2020 discussing the history and the technological evolution of Virtual Reality Technology as well as its present utilization in projects funded by the European Union.
- I have participated in the Model of United Nations GUC in 2021 as a delegate in the Security Council.
- I also participated in the Visual Game Studio club GUC in 2022 as a junior student learning about game design using Unity and C#.

## **Skills**

- Full-stack development
- Front-end development
- Back-end development

- Java
- SQL
- Intermediate knowledge in C and C++

## Languages

- Fluent English
- Intermediate Level B1 in German