

# OMAR YOUSEF

+(20) 1060120066 ◇ Cairo, Egypt

[omar.m.a.yousef@gmail.com](mailto:omar.m.a.yousef@gmail.com) ◇ [in/mourra950](https://in/mourra950) ◇ [github/mourra950](https://github.com/mourra950) ◇ [My Portofolio](#)

## EXPERIENCE

---

### Academic Coordinator Head

Google Student Development Club

Sep 2023 - Apr 2024

*Cairo, Egypt*

- Organize and teach a course during the semester about computer graphics and integrating it with web dev using vanilla Javascript and Reactjs.
- Give a session for self branding, resume and CVs.

### Shadowing Program Network Intern

NOKIA

Aug 2023 - Sep 2023

*Cairo, Egypt*

- Attended sessions about NOKIA and mobile networks infrastructure from CORE, RAN, waves, IP, SDM, 5G, and etc....
- Shadowed the team working on Orange services and observed the process of troubleshooting issues and bugs during a major system update.
- Observed NOKIA GUI software and how profiles are made and stored and the parameters available.

### Contestant

ECPC

Aug 2023 - Aug 2023

*Alexandria, Egypt*

- Participated for the second time with better knowledge in using C++ STL libraries.
- Ranked in the Top teams from Ain Shams Engineering .

### Game Jam 2023

GMTK

July 2023 - July 2023

*Cairo, Egypt*

- Participated in the Game Jam GMTK 2023 with the theme reversed roles.
- Collaborated with a team to create a game where the character switch roles with the villains in a platform action game to reach the end of the mountain.

### Google Developer Solution Challenger

Google GDSC

Feb 2023 - Mar 2023

*Cairo, Egypt*

- Participated in the Google Solution Challenge 2023 and contributed to the development of a website called Global Care.
- Collaborated with a team to create a user-friendly platform for storing and accessing medical records from any device.
- Worked on the front-end development using ReactJS, MIU, and ANTd libraries.
- Contributed to the backend development, creating Firestore and authentication on Firebase.

### Mackathon 4.0 Competitor team 9 3/4

STP

Feb 2023 - Mar 2023

*Giza, Egypt*

- Applied Control, Computer Vision, and ROS knowledge to develop an autonomous driving RC car.
- Contributed to team's success by passing filtration phase and ranking second on leaderboard.
- Achieved 6th place ranking overall in competition.

### Summer Intern

MBC Group

Jun 2022 - Aug 2022

*Giza, Egypt*

- Worked as an Engineer intern in TV broadcasting and experienced the entire process.
- Gained firsthand knowledge of quality assurance, media broadcasting, quality control, production, and satellites.

<b>Ain Shams Engineer Representative Volunteer</b> EDU Gate	Mar 2022 - Mar 2022 <i>Giza, Egypt</i>
<ul style="list-style-type: none"> <li>• Attended EDU Gate to help answer question for upcoming undergrads who had question about Ain Shams.</li> </ul>	
<b>Project Manager Icoming Global Teaching</b> AIESEC Ain Shams	Jan 2022 - Aug 2022 <i>Cairo, Egypt</i>
<ul style="list-style-type: none"> <li>• Researched and identified teaching opportunities and partnerships.</li> <li>• Organized preparation seminar to facilitate adaptation to local culture and language.</li> <li>• Achieved recognition as best team member during Q1Q2.</li> <li>• Assisted with recruitment and onboarding of new members.</li> <li>• Acted as a guide to foreigners</li> </ul>	
<b>Contestant Team Enigma</b> ECPC	Jun 2021 - Aug 2021 <i>Alexandria, Egypt</i>
<ul style="list-style-type: none"> <li>• Attended sessions to learn more about computer Algorithm and problem solving using C and C++ for the outmost efficiency.</li> <li>• Applied what I learned with my team in the competition of ECPC.</li> <li>• Ranked 17 on Ain Shams University.</li> </ul>	
<b>Marketing Member</b> SOUL	Nov 2020 - Dec 2020 <i>Cairo, Egypt</i>
<ul style="list-style-type: none"> <li>• Joined SOUL as a marketing member for 2 before closing because of corona</li> <li>• Created materials for the facebook page either for sponsors or to attract new members</li> </ul>	
<b>IT Intern</b> CISCO	Jun 2020 - Jul 2020 <i>Cairo, Egypt</i>
<ul style="list-style-type: none"> <li>• Worked closely to IT learning the basic of networking and how emails are handled.</li> <li>• Observed CISCO servers and sales seminars to learn more about CISCO</li> </ul>	
<b>Chemistry and Math Teaching Assistant</b> IGSCE	Jul 2018 - Mar 2020 <i>Cairo, Egypt</i>
<ul style="list-style-type: none"> <li>• Taught lessons in Advanced and Ordinary Level Math.</li> <li>• Corrected and proctored exams weekly.</li> <li>• Gave extra classes for weak students.</li> </ul>	
<b>Volunteer</b> Cairo Runners	Jun 2018 - Jun 2018 <i>Cairo, Egypt</i>
<ul style="list-style-type: none"> <li>• Participated as a volunteer in the "Cairo Runner Run for Baheya" event, supporting breast cancer awareness and women's health initiatives.</li> </ul>	

## EDUCATION

<b>B.S in Computer Engineering</b> , Ain Shams/University of east London Major in Computer Multimedia	Expected 2024
<b>International General Certificate of Secondary Education</b> , British Ramses School Graduated with Distinction GPA 3.88/4	2016 - 2019
<b>Primary</b> , College de la Saint Famille (Jesuites) Passed DELF B1	2006 - 2016

## PROJECTS

---

**Distributed Racing Game** Developed a distributed game project using Unity as the game engine. Through thorough exploration of documentation and hands-on experimentation, I acquired the necessary knowledge to connect the game to a Python server using low-level sockets. The Python server was then connected to a Node server on AWS EC2 using Socket.IO. This configuration enabled seamless communication between the game and the server, facilitating real-time multiplayer functionality and enhancing the overall gameplay experience. Integration of these technologies allowed for the creation of an engaging and interactive gaming environment. [Serene Track](#)

**Global Care** Participated in a team project that aimed to address the third SDG of well-being. We developed a website, which publicly stores medical records and emergency contacts for easy access during medical emergencies. Our team utilized ReactJS for the front-end and Firebase for the back-end development. [visit the site](#)

**My Portfolio** Developed my own comprehensive portfolio website using ReactJS and Ant Design for UI components, referencing all of my relevant experience and projects. The site features a unique black and white game aesthetic with awesome glitch effects and excellent responsiveness.” [visit Portfolio](#)

**My Room** Designed and developed a 3D website utilizing ReactJS, and React-Three-Fiber, where I seamlessly integrated a 3D model of a room created on Blender and allowed users to interact with a display screen and access my portfolio site” [visit Room](#)

**Rover Mars** Leveraged my expertise in Python, OpenCV, and NumPy to write scripts that employed computer vision techniques for autonomous navigation and gold rock collection in a simulation, earning top marks for my project’s flawless execution, collision avoidance, and real-time mapping of the surrounding world. [repo](#)

**Embedded TivaC Calculator** Demonstrated my proficiency in embedded systems programming by designing and implementing an advanced calculator on the TivaC board, leveraging my expertise in interrupts and timers to enable timer and stopwatch functionality. [repo](#)

**Atmega16 Security Door** Designed and implemented a highly configurable security door system using C programming and various embedded systems components, including interrupts, timers, GPIOs, and I2C. Developed custom libraries, drivers for an alarm system, a motor, Timer0, and memory storage. Completed this project as part of my diploma program in Embedded Systems. [repo](#)

**ASEC MIU** Developed a simple website for non profitable organization using Agile techniques by using Adobe XD for prototype, Jira, Github, Trello for project management, collaboration, and version control. The back-end was developed using Django and Sqlite for DB. [repo](#)

**Simple Proxy Server** Developed a simple HTTP proxy server using Python’s socket module. The server listens for incoming connections on a designated port and checks for blocked URLs before retrieving files from either the cache or the requested host. It stores received responses in the cache for future use and sends error messages to the client in the event of retrieval issues. [repo](#)

**Brick Breaker** Recreated the famous Brick Breaker game using javascript, Threejs and cannon-es libraries [repo](#)

**Pong Threejs** Recreated the famous Pong game using javascript, Threejs and cannon-es libraries [repo](#)

**Data Structure Time-Complexity Comparison** Created a JavaFX application capable of generating arrays of numbers manually or randomly, applying various sorting algorithms, and visually presenting the execution times through graphs. [repo](#)

**AI Search Algorithm Visualizer** implemented Breadth-First Search, Depth-First Search, Uniform Cost Search, Iterative Deepening Search, Greedy Search, and A\* Search algorithms in a project with a PyQt-based Graphical User Interface. This GUI allowed users to define nodes, set a starting point, specify goals, and create connecting edges. The GUI showcased algorithm progress, highlighted visited nodes, and displayed the final path, enhancing my algorithmic and PyQt-based UI design skills. [repo](#)

## SKILLS

---

Programming languages	Python ,C/C++/C#, Java,LUA, JavaScript
Web Development	HTML, CSS3, Django, React, Express, Node.js, Socket.io, Threejs
Database and Data Management	SQL, Firebase, Firestore, AWS EC2, MongoDB
Game Development and 2/3D Design	Unity, Blender, Aseprite, Threejs, Unreal Engine, LUA
Adobe	Photoshop, After Effects, Illustrator Premiere Pro.
Development Environments and Tools	VS Code, Git, OpenCV, NumPy, FreeRTOS
Computer Networking and Robotics	CCNA, AWS, EC2s, Socket.io, ROS
Softwares	Aseprite, Blender, VScode, Unity, Git, Microsoft office
User Interface and Graphics Frameworks	JavaFX, PyQt

## CERTIFICATES

---

. Machine Learning Specialization, Stanford Online	Currently
. Deep Learning Specialization, Stanford Online	Currently
. CCNA 200-301, Cisco	Currently
. CS50's Introduction to Cybersecurity, CS50, Harvard	Currently
. CS50's Introduction to Databases with SQL, CS50, Harvard	Currently
. Threejs Journey, Threejs journey	Sep 2023
. ECPC rank 15, ICPC	Aug 2023
. CS50's Web Programming with Python and JavaScript, CS50, Harvard	Mar 2023
. CS50's Introduction to Programming with Python, CS50, Harvard	Oct 2022
. Digital Marketing Chanllenger Track, egFWD	Sep 2022
. Engineer Summer Intern, MBC Masr	Sep 2022
. Best Informative Presentation, Ain Shams University	Sep 2022
. Best Member, AIESEC Ain Shams	Aug 2022
. MT Embedded Diploma 64, Embedded Systems Programming Courses(M.T)	Jun 2022
. Unity Junior Programmer, Unity	Dec 2021
. Complete C# Unity Game Developer 2D, Udemey	Nov 2021
. Unity Essentials Pathway, Unity	Nov 2021
. Software Testing Workshop, Valoro	Aug 2021
. ECPC rank 17, ICPC	Mar 2021
. CS50's Introduction to Computer Science, CS50, Harvard	Nov 2020
. Adobe Photoshop CC: A Beginner to Advanced, Udemey	Nov 2020
. Partner Schools Global Network 2017 worldwide competition, Brithish Council	Jun 2017