OMAR YOUSEF

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EDUCATION

B.S in Computer Engineering, Ain Shams/University of east London — Expected 2024
Graduation project leader sponsored by Siemens EDA
Major in Computer Multimedia

International General Certificate of Secondary Education, British Ramses School — 2016 - 2019
Graduated with Distinction GPA 3.88/4

Primary Education, College de la Saint Famille (Jesuites) — 2006 - 2016
Passed DELF B1

EXPERIENCE

Graduation Project — Sep 2023 - Present
Ainshams University Sponsored by Siemens EDA — *Cairo, Egypt*

- Project is sponsored by Siemens.
- Developing a software tool to generate SystemC wrapped models of complex CNN architectures with Pytorch.
- Integrating Tensorboard within the GUI to compare different models stats in real time.

Open Source Contributor — Sep 2023 - Present
Threejs — *Cairo, Egypt*

- Submitted my first PR to Threejs library to fix some issues and fill the arabic documentation.
- PR was accepted and merged in version r159.

Academic Instructor — Sep 2023 - Present
Google Student Development Club — *Cairo, Egypt*

- Teaching a course about the basics of computer graphics and web development for each student to apply the knowledge acquired to develop a 3D portfolio.
- Course covers from the basic graphics theory, Blender, Photoshop, vanilla JavaScript, and Threejs.

Shadowing Program Network Intern — Aug 2023 - Sep 2023
NOKIA — *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 software during one of the many project and understood the workflow.

Contestant — Aug 2023 - Aug 2023
ECPC — *Alexandria, Egypt*

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

Google Developer Solution Challenger — Feb 2023 - Mar 2023
Google GDSC — *Cairo, Egypt*

- Participated in the Google Solution Challenge 2023 and development of a website called Global Care.

PROJECTS

My Portfolio Portfolio Site
Personal Project Repo

- Developed my own comprehensive portfolio website to showcase my work and experience for recruiters.
- Developed the website using ReactJs, and Ant Design.

Car Pool
Ainshams University Mobile Programming Project Repo

- Developed a carpool application for students to create trips from or to the university and be able to reserve them in realtime and check the status anytime they want.
- Developed the application using Flutter, and Firebase Firestore.

Distributed Racing Game Serene Track Site
Ainshams University Distributed Project Repo

- Developed the game server using Python, Unity, Node express.
- Integrated the whole workflow using sockets to connect players to a the game server on AWS.

Global Care Global Care Site
Google Developer Solution Challenge Repo

- Developed the website using ReactJs, and Firebase.
- Successfully Created a site that publicly stores medical records and emergency contacts for easy access during medical emergencies.

Rover Mars
Ainshams University Computer Vision Project Repo

- Developed a script to control using computer vision techniques a robot on Unity using sockets to navigate and collect gold rocks throughout a simple map.
- Developed the script using Python, OpenCV, Sockets, and NumPy.

ASEC MIU
Ainshams University Agile Project Repo

- Developed a simple website for non profitable organization using Agile techniques
- Developed the website using Adobe XD, Jira, Github, Trello, Django, and Sqlite.

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