Omar Ashraf Mohammed

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EDUCATION

European Universities in Egypt　　　　　　　　　　**New Administrative Capital, Egypt**
BSc in Computer Science　　　　　　　　　　*Expected Graduation: October 2026*

- **Academic Standing:** First Class Honours
- **Related Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Calculus, Computer Systems, Computer Architecture, Web Development, Networks, Machine Learning, Combinatorics

PROJECTS

2D Sidescroll Game　　　　　　　　　　**New Administrative Capital, Egypt**
Team Leader　　　　　　　　　　*October 2023 - March 2024*

- Built a JavaScript game using the p5.js library, featuring a dynamic canyon environment where players collect coins, with difficulty scaling based on level completion.
- Implemented progressive difficulty adjustments, modifying obstacles and speed as players progress through the levels, ensuring an engaging and challenging gameplay experience.

Airplane Landing Simulator　　　　　　　　　　**Cairo, Egypt**
Team Leader　　　　　　　　　　*March 2023 - May 2023*

- Utilized DEQ in C++ simulator to streamline flight management of airplanes landing at random intervals, achieving a 20% efficiency gain over standard queues.
- Mapped out an intuitive UI/UX using the QT framework, enhancing user interaction and ease of control.

The Sideline Show　　　*Link*　　　　　　　　　　**Cairo, Egypt**
Team Leader　　　　　　　　　　*April 2023 - May 2023*

- Designed and built a responsive website using HTML, CSS, and JavaScript, focusing on user-friendly navigation and visually appealing layout, aiding in amassing 40,000+ views across all social media platforms.
- Implemented interactive features using RESTFUL APIs to enhance user engagement and functionality.

EXTRACURRICULAR/ CERTIFICATIONS

Electronic Arts Software Engineering Job Simulation on Forage　　　　　　**New Cairo, Egypt**
Junior Software Engineer　　　　　　　　　　*February 2024*

- Proposed a new feature for the Sims 4 and wrote a Feature Proposal describing it to other stakeholders.
- Patched a bugfix and optimized the Sims 4 codebase by implementing an improved data structure using C++.

SKILLS

Programming: JavaScript, HTML/CSS, Node.js, React.js, p5.js, C++, Qt, Python, JSON, AWS, MySQL
Languages: Arabic (Native), English (Fluent), French (Conversational)