

YOUSEF ABDEL KADER

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EDUCATION

Jumeirah College (JC), Dubai

Sep 2017 - Present

- A Levels: Physics, Mathematics, Further Mathematics, Computer Science
- AS Levels: Physics (A), Mathematics (A), Further Mathematics (A), Computer Science (A)
- GCSEs: History, Economics, Physical Education, English Language, English Literature, Combined Science, Computer Science, Mathematics, Arabic, Further Math

COMPUTER SCIENCE ACTIVITIES

AI/ML Research Intern, University of Southern California, *Virtual*

Jun 2023 - Sep 2023

- Collaborated with the Intelligent Human Perception Lab under Prof Mohammad Soleymani and PhD Yufeng Yin
- Helped develop a comprehensive dataset for engagement detection as part of a support group research project
- Conducted pilot annotations to facilitate the creation of an accurate survey for engagement annotation

Developer, Quran X App, *Dubai*

Jun 2023 - Jul 2023

- Developed the application using Swift and SwiftUI
- Implemented features that enabled the app to display and read out verses with loop features to aid in memorization
- Included an in-built compass to point users in the direction of the Qibla
- Allowed in-app purchases so users can donate to charity

Offensive Security Certified Professional (PEN-200), Offensive Security, *Virtual*

Aug 2022 - Present

- Attended course to learn offensive security for web apps, networks, and operating systems
- Was the youngest person to attend the course at age 16
- Learned various methods to protect security systems from hackers and practised skills in the lab, where I was given an environment to break into applying research skills I learned

Machine Learning: Coding Deep Neural Networks, UCLA, Los Angeles

July 2022

- Learned Natural Language Processing and created an ML Model to categorize tweets by sentiment and topic
- Developed image recognition software to detect sign language, translate it to text, apply text-to-speech for vocal output
- Created image recognition app for rock paper scissors game to detect player's move and compare it to computer's move

Developer, Full Stack Cloud Gaming Service, *Dubai*

Dec 2021 - Feb 2022

- Created a website allowing devices with strong internet to connect to powerful servers to play resource-intensive games
- Developed the backend using C# and a database (SQL)
- Created the front-end using JavaScript, HTML, and CSS
- Uses Microsoft Azure and AWS for the game servers hosting and for the backend + databases

Leader, Blockchain Society, JC, *Dubai*

Sep 2021 - June 2022

- Created Presentations on Blockchain for use across the school
- Taught students from Year 7- Year 13 Blockchain Theory

Cyber Security Intern, Hive Pro, *Dubai*

July 2021

- Gone through their Penetration Testing Training and completed 26 penetration testing labs
- Developed skills to test and safeguard cybersecurity systems and enterprise environments

Developer, Chrome Extensions, *Dubai*

Dec 2020 - Jan 2022

- Kahoot! Chrome Extension (over 635,000 users) - created using JavaScript, HTML, CSS
- Quizizz Chrome Extension (over 17,000 users) - created using JavaScript, HTML, CSS
- Exam.net Chrome Extension (over 12,000 users) - created a Proof of Concept Chrome extension for an exploit
- Wordle Extension (500+ users) - Ported the famous game to an extension for quick play | Extension featured by Google

Founder, Computer Programming Club, JC, *Dubai*

Aug 2020 - Jun 2021

- Taught students from Year 7- Year 13 computer coding skills such as Python
- Ran mentoring sessions to help students with Computer Science coursework and their individual coding projects

- Computer Science Certification and Courses**, Various Organizations, *Virtual* Jun 2019 - Nov 2021
- **SANS API PenTesting Bug Bounty Course**: Learnt the formal process of discovering a vulnerability and the legal + ethical way of exploiting it and responsibly disclosing it to the company
 - **WiFi PenTesting Course**: The youngest person to complete the course at age 13. Learned how to exploit a WiFi network and create a malicious network. Completed active and passive recon on lab networks.
 - **Wix Certification for Velo Development**: Learned the Wix Velo Javascript integrations, allowing me to add custom complex functionality to Wix websites. Completed exam to get certified.

- Game Development**, Individual, *Dubai* Jul 2018 - Jan 2022
- Learned 2D and 3D game development on Unity
 - Created Spooked Game for Android by importing assets for visuals and programming the physics and logic of the game

ACADEMIC ACHIEVEMENTS AND HONORS

- Gold, Senior Math Olympiad, JC, Dubai October 2023
- Gold Award, UKMT, JC, Dubai October 2023
- Computer Science Highest Achiever, JC, Dubai June 2021
- Arabic Highest Achiever, JC, Dubai June 2020
- Math Highest Achiever, JC, *Dubai* June 2019
- Islamic Highest Achiever, JC, *Dubai* June 2018

LEADERSHIP POSITIONS

- House Captain**, Fihri House, JC, *Dubai* Aug 2023 - Present
- Organized assemblies for the entire school and created videos/presentations for the assemblies
 - Helped senior leadership team with school decisions and events such as inter-house events, hosted JC Talent Show
 - Recruited Future House Captains and house deputies

SPORTS

- Football** (Emirates American Football League Wide Receiver), *Dubai* Jan 2022 - Present
- Play competitively outside of school, participated in local tournaments

- Soccer**, JC Soccer Team, IJF Academy, Elite Sports Academy, *Dubai* Feb 2016 - Present
- Played competitively with school teams and private academies

- Swimming**, JC Swimming Team, Hamilton Aquatics, *Dubai* Apr 2011- Present
- Swam competitively for school teams and in private tournaments
 - Swam at high levels, including national television and international meets

COMMUNITY SERVICE

- Math Peer Mentor**, JC, *Dubai* Aug 2021 - July 2023
- Mentored gifted and talented younger students in mathematics
 - Helped them with math homework, prepared them for tests, and got them ahead of the curriculum

- First Aid for Mental Health Qualification**, JC, *Dubai* November 2022
- FAA level 3 award in supervising first aid for mental health qualification with credit value 1

- Bronze Medalist**, Duke of Edinburgh, *Dubai* June 2021
- Volunteered at a desert cleanup by collecting trash, appropriately segregating and disposing of it
 - Taught young girls coding in Python and conducted assessments to check their progress

SKILLS AND INTERESTS

Interests: Magic, Boating, DJing

Skills: API, Cloud Computing, Coding (Python, C#, Java, JavaScript, HTML, Swift, SwiftUI and more)

Languages: English, Arabic