

Omar Abdelrazik

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Education

University of Warwick – BSc Computer Science 1 st class (predicted)	September 2024 - July 2027
Key Modules: Programming for Computer Scientists, Design of Information Structures, Web Development Technologies	
King Edward VI Camphill Sixth Form	September 2021 - July 2023
A Levels: Maths – A*, Computer Science – A*, Physics – A	
Hamd House School	September 2019 - July 2021
GCSE: 9 GCSE's 7-9 including Mathematics (9) and English Language (8)	

Work Experience

Intrepid Technology Solutions, Software Engineer Intern	May 2024 - September 2024
<ul style="list-style-type: none">Developed a dynamic coaching portal using React and TypeScript, improving user interface and functionality.Integrated Firebase for cloud storage, enabling scalable storage for 100+ hours of coaching material, supporting future growth.Conducted unit testing, improving code reliability by identifying and resolving 10+ critical bugs, resulting in a 20% reduction in post-deployment issues.Explored the use of Docker containers and images with an SQL database, improving deployment efficiency by 25% and streamlining system management.	
University Hospitals Birmingham, Data Analyst Intern	May 2024 - August 2024
<ul style="list-style-type: none">Created a comprehensive report on medical referral times by site and specialty using Power BI and SQL in Microsoft SQL Server, reducing reporting time by 40% and improving data accessibility for 10+ departments.Analysed 100,000+ records, optimising reporting processes and enhancing decision-making for hospital management.Interacted with experienced data scientists, gaining insights into advanced analytics and its implementation in big organisations.	
Rolls Royce, Systems Engineering Work Experience	April 2024 - May 2024
<ul style="list-style-type: none">Shadowed a control systems engineer to understand the role of software in ensuring safety through fast and accurate data transmission between aeroplane engine components.Networked with engineers from multiple departments, gaining insight into the importance of cross-team collaboration for effective engineering and safety management.	
HausBots, Robotics Engineering Work Experience	July 2022 - August 2022
<ul style="list-style-type: none">Shadowed a software engineer working on a Python-based control app, discussing techniques to optimise connection time between the app and the wall-climbing robot for real-time control.Explored techniques for app abstraction, focusing on user-centric design by simplifying the interface to display only the most relevant information, enhancing usability.Conducted in-depth research on materials for the robot's frame and presented findings to the team, strengthening my communication and public speaking skills.	

Other Work Experience

University Hospitals Birmingham, A&E Receptionist	February 2024 - Present
<ul style="list-style-type: none">Manage patient bookings for 30+ patients per shift in a high-pressure Urgent Treatment Centre, ensuring accurate and quick data entry and reducing wait times by 20%.Maintain professionalism and adaptability, handling high-stress emergency situations while ensuring efficient service for patients.	

Projects

Warwick Hackathon – AI-Driven Chess Training Platform	October 2024
<ul style="list-style-type: none">Developed a Python-based chess educational app that integrates with the Chess.com API to retrieve and analyse user game statistics, providing personalised feedback based on historical gameplay data.Leveraged an AI agent to analyse gameplay history and identify user weaknesses, tailoring practice recommendations to improve performance in specific areas.Integrated the Lichess puzzle database to deliver targeted puzzles aligned with user skill levels and identified weaknesses, enhancing user engagement and skill improvement.	
Coaching Portal	May 2024 - August 2024
<ul style="list-style-type: none">Developed a coaching portal using TypeScript and React, allowing coaches to record and upload video content via camera and screen recording.Integrated Firebase cloud storage to handle 100+ hours of coaching materials, enabling seamless access and scalable data management.Implemented unit testing, resolving 15+ bugs and improving platform reliability by 20%, ensuring a smooth user experience during video uploads and playback.	
Projectile Motion Simulator	October 2022 - March 2023
<ul style="list-style-type: none">Developed a projectile motion simulator using Python, allowing users to input initial height, speed, and angle to visualise motion.Implemented physics-based calculations to accurately simulate projectile motion and dynamically display its trajectory.Created an intuitive graphical user interface, using Pygame to render real-time motion and draw the projectile's path, enhancing user interactivity and educational value.	

Skills and Interests

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- Programming Languages:** Python, Java, JavaScript, HTML, CSS, MySQL
 - Tools & Technologies:** Git, GitHub, Jira, Docker, PowerBI, Linux, Windows, Excel, PowerPoint
 - Interests & Extracurricular:** Tennis, Padel, Football, Reading, Squash, Gym