ZAIN MOBARIK

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EDUCATION

University of Warwick, *2021 - 2024*
- BSc Computer Science, Predicted 1:1

Dr Challoner's Grammar School, *2014 - 2021*
- A-Levels: Mathematics (A*), Computer Science (A*), Philosophy (A) and Further Mathematics (A)
- GCSEs: Eight Grade 9's, one A and A* with distinction in Further Mathematics

WORK AND LEADERSHIP EXPERIENCE

Terrarium - VC Summer Analyst, *June 2022 - Present*
- Gained exposure to the workings of an early stage Web3 and DeepTech Venture Capital.
- Participated in deal flow analysis, due diligence, corporate outreach and partnerships as well as market research.

Jane Street - Spring Insight (Software Engineering), *Apr 2022*
- Gained an understanding of the working of their quantitive proprietary trading models and ETF specialisation.
- Deep dive into the OCaml language, learning about its use cases and coding a snake game.
- Came 3rd in the Electronic Trading Competition in which we had to program our own trading bots.

BlackRock - Aladdin SWE Spring Insight, *Apr 2022*
- Understood the various divisions of BlackRock and how they function together. Focused specifically on the workings of Aladdin and how it deals with Index reconstitutions and helps with portfolio management.
- Shadowed a software engineer analyst in the Aladdin Product Group Division.
- Participated in a financial tech and portfolio management challenge presenting our ideas to a board of analysts.

Spenmo - Expansion Intern, *Dec 2021 - March 2022*
- Fintech payments and spend management company that works with SMBs and has raised over $120 million from top-tier investors including Tiger Global, YC, Insight Partners, and Addition Capital.
- Re-designed and automated large parts of the recruitment strategy as well as contacting, outbounding and conducting first-stage interviews with potential employees.

Warwick Data Science - Datathon (1st Place), *Oct 2021*
- Our team won a data science Hackathon in which we implemented a Naive Bayes model to classify our data.
- The dataset we analysed using Pandas, NumPy and Scikit-learn was of previous Olympic medalists and we had to justify what attribute we thought makes someone win a medal (height, weight, nationality etc.)

Warwick AI Society - Computer Vision Project, *Sep 2021 - March 2022*
- Selected as part of a team to develop a shopping receipt analysis app involving computer vision, text extraction using an API, optical character recognition, models to classify the data as well as times series forecasting to predict user shopping trends.

Command-line Terminal - Personal Project (C), *Jan 2022*
- Using command-line, I created my own command-line editor for file manipulation using functions such as realloc() and getLine() and handling the memory management in C.

EasyA (startup) - Software Engineering Intern, *Aug 2021 - Sep 2021*
- Utilised React (a JavaScript library) and Gatsby (a JavaScript framework) as well as software such as Git and Github to improve the SEO of the EasyA website.
- Worked on improving the style and formatting of parts of the website as well as overall site performance.

Rothschild and Co - Pioneer Work Experience Programme, *Aug 2021*
- Came first in a Dragon's Den project where I prototyped an app to provide a product for Rothschild and Co and presented it to a group of Directors and Analysts.

Ancient Combat - Personal Project, *July 2020 - March 2021*
- Developed a street-fighter game in Python using Object-Oriented Programming and the Pygame library.
- Created a database in SQL to log the user's scores and display the top 5 on the leaderboard.
- Implemented collision detections and reality-based projectile motion as well as AI to underpin game difficulty.

Bucks Free Tutoring - Founder, *Apr 2020 - Apr 2021*
- Managed a team of 15 tutors to deliver free, virtual tutoring sessions through the school closures.
- Created the website and coordinated the deliverance of over 100 hours of lessons to underprivileged students.

Decatab - Machine Learning Intern, *Aug 2020 - Sep 2020*
- Using Facebook's COCO dataset, I implemented a neural network (Masked RCNN) to create bounding boxes around objects in an image through instance and semantic segmentation.
- I researched the structure of a pre-trained model for image classification and object detection. Then I retrained the model for a custom task using Python, OpenCV and TensorFlow on a Google Colab instance.
- I have also written an article discussing my research and ethical considerations for the project.

SOCIETIES AND VOLUNTEERING

Warwick AI Society - Executive, *Sep 2021 - present*
- Selected to attend weekly discussions on AI safety debating the future of artificial general intelligence, superintelligence and policy-making.

SKILLS

- **Python, Java, C, Swift, Web Dev (HTML, CSS, JavaScript), TensorFlow, Pandas, Keras, Adobe XD**