

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 2021

- Gained an understanding of the working of their quantitative 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 2021

- 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.

Spemmo - Expansion Intern, Dec 2021 - March 2021

- 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 2021

- Selected as part of a team to develop a shopping receipt analysis app involving computer vision, optical character recognition, models to classify the data as well as times series forecasting to predict user shopping trends.

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.

Foodi (startup) - Product Management Intern, July 2021 - Sep 2021

- Worked in the product management team designing, wire-framing and prototyping the app.
- Conducted research with restaurants and users to help inform the product roadmap and development.

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