Max Kilburn

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RELEVANT EXPERIENCE

AgSpace Agriculture Ltd   June 2021 – Aug 2021
Machine Learning Intern   *Oxfordshire*
- Developed a method utilising the Canny Edge Detection algorithm for automatic field boundary detection using spatial data from satellite imagery and converted resulting polygons of selected fields into GPS coordinates for storage in the company's underlying cloud database.
- Trained and tested a Holistically-Nested Edge Detection model and developed a method to improve the Canny Edge Detection algorithm using the trained neural network, resulting in a significant increase in field boundary accuracy.
- Created a user interface for the method using Python which applied the method to live satellite data, and presented the application to company employees for potential commercial application

D M Stewart Ltd   September 2022 – January 2023
Bartender   *Edinburgh*
- Served food and drinks in a busy traditional bar in the heart of Edinburgh.
- Built rapport with both regular customers and tourists - providing recommendations on whiskeys and popular attractions in the city

Save the Children Society   September 2020 – June 2021
Society Treasurer   *St Andrews*
- Responsible for the financial management of the society - general financial oversight, book keeping and preparation of reports.

University of Aberdeen   June 2016
IT Services Intern   *Aberdeen*
- Worked at the IT support desk - troubleshooting and assisting technical problems.
- Worked with WordPress, GitHub and HTML for the University website

Manchester Institute of Biotechnology   July 2016
Lab Assistant   *Manchester*
- Assisting on a research project on biological enzymes.
- Included technical lab work and several presentations of experimental findings.

EDUCATION

University of St Andrews   September 2017 - June, 2022
MMath (Integrated Masters), Mathematics   *St Andrews, Scotland*
- First Class (3.9/4.0 GPA); Dean's List 2020/2021 and 2021/2022 for exceptional academic achievement
- Dissertation - 'Intraday Volatility Estimation and its Interaction with Market Microstructure Effects'
- Member of St Andrews squash club; attended weekly boxing sessions; treasurer for the Save the Children Society

SKILLS & INTERESTS

- **Skills:** Python, Java, Fortran, Amazon AWS, GitHub, Microsoft Office
- **Interests:** Climbing, Squash, Puzzles (Sudokus and Cryptic Crosswords), Coding Projects