

Alexander Mulcahy

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EDUCATION

University of Oxford

BA Computer Science

Expected 2.1

Awarded a prize for preliminary exam results

67% in Functional Programming, Design and Analysis of Algorithms

Oxford, England

Expected Graduation: July 2027

Exeter College

A levels: Further Maths A*, Maths A*, Music A*, Computer Science A

Received the Faculty Award for Music

Exeter, England

2022 - 2024

St Peters CofE Aided School

GCSEs: Nine 9s, one 8

Exeter, England

2017 – 2022

EXPERIENCE

Quill Project

Web Development Intern

Oxford, England

Dec 2025

- Designed a new staff page for quillproject.net and implemented with Bootstrap and jQuery
- Gathered user requirements and iterated design using Figma web design tools

Morrisons

Delivery Driver

Exeter, England

Jul 2025 – Oct 2025

- Delivered to up to 25 customers per day, ensuring friendly service to all.
- Managed multiple orders at one time, where I utilised my time management skills.

PROJECTS

Project: Minimax-Driven Connect4 CPU opponent

Python

- Recursive algorithm implementing Minimax decision rule from game theory to create a computer opponent
- Adjustable difficulty by altering search depth, with ability to beat human player without significant processing time.

Project: Neural Network House Price Predictor

Python / SQL

- Built and trained a simple neural network using a logistic regression model to predict house prices from real-estate data sourced from Kaggle.com.
- Model trained on 900 data entries and tested on a further 100 which resulted in **96%** prediction accuracy

Project: Games Website

JavaScript / HTML / CSS / Python / C

- Built a website to host a daily 5x5 crossword puzzle. Included a user login page and a dynamic daily leaderboard
- Implemented in React for frontend and Python for backend, connected by Flask. Puzzles generated by C program

SKILLS AND INTERESTS

- Programming Languages: Python, Scala, Haskell, JavaScript, C#
- Music: Grade 8 Jazz Piano, Devon Youth Jazz Orchestra (2022-2023)
- Sport: Ultimate Frisbee U17 National Champion (2022)