

DOMINIC HARRINGTON

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EDUCATION

University of Cambridge, St John's College

2022 - 2026

Final-year MEng Engineering student at Cambridge, specialising in Artificial Intelligence.

Achieved a First Class in each year. Townsend Scholarship and Wright Prize for exceptional exam performance.

Ranked top 3 in the 2025 Cambridge Engineering Extra-Curricular Awards.

Elected to the CAISH AI safety fellowship in 2024.

Master's thesis: Using deep learning to segment MRI scans. Supervised by Professor Matthew Juniper.

Magdalen College School Oxford

2011-2022

5 A*s at A-level in Maths, Further Maths, Physics, Chemistry and Computer Science.

Top 50 in the world for AQA Computer Science A-level.

Straight 9s at GCSE. School prefect. Academic scholarship.

EXPERIENCE

Nagoya University (exchange student)

July 2025

I presented research on AI applications in nuclear fusion to Tokai Tokyo Financial Holdings' chairman and directors.

Williams F1 team (machine learning intern)

July-September 2024 & 2025

MATLAB, Python, Pytorch, mlflow — HPC, CUDA, LLMs, CV, Graph machine learning, Bayesian inference.

I reduced the error of the team's downforce simulations by 30% by building a bespoke machine learning algorithm.

I built an AI system using both LLMs and computer vision that read historic wind tunnel reports to match CFD simulations to the corresponding wind tunnel run.

UK Atomic Energy Authority (machine learning intern)

June-September 2023

Python, PyTorch, MOOSE, ParaView — HPC, FEM, Digital twins, 3D visualisation, Optimisation.

I built a machine learning algorithm that found the best places to put sensors in experiments, improving the effectiveness of previously planned experiments by over 20%.

PROJECTS

Aerofoil optimisation (machine learning & fluid dynamics)

2025

Python — CFD, FEM, Variational calculus, Vector calculus, Optimisation, Adjoint Methods.

I built a CFD solver to simulate the flow around an aerofoil.

I compared many different optimisation strategies (Bayesian optimisation, PSO, Adjoint-accelerated gradient descent) when maximising different metrics (such as lift to drag ratio).

Telegraph Fantasy Funds (machine learning & trading)

2021

Python, TensorFlow — Web scraping, Algorithmic trading, Deep Learning.

I finished 11th out of 6000 competitors by training a deep learning classification model to invest.

My portfolio increased by over 15% while the FTSE 350 decreased by 3% during this two month period.

SkiCross (mobile game)

2020

C#, Krita, Unity — Database design, UI design, Graphical design, Marketing.

I taught myself to program in C# to create a mobile game called SkiCross to raise money for a school in Uganda.

The game reached 14th place on the App Store's trending list for paid sports games.

INTERESTS

Running

St John's College Athletics team captain 2024/2025.

During my tenure as captain we won Cuppers (the college athletics league).

I personally finished 2nd in Cambridge in the Cuppers 400m.

Hockey

St John's College Hockey top goal scorer 2023/2024.

Sailing

UK nationals 2019 (sailing RS Fevas).

Volunteering

I run the OMV Cambridge soup kitchen to feed homeless people every fortnight.

I spent a week volunteering in a hospital in Lourdes (France) in 2022.

Public speaking

St John's College Engineering Society president 2023/2024.