

Education

University of Strathclyde, Glasgow - BSc (Hons) Computer Science

September 2025 - June 2029 | Second year

Year 1 average: 78% - Pass with Distinction

Programming Foundations: 86% | Machines, Languages & Computation: 83%

Projects

Cognate - Python, PyTorch, SvelteKit | [Live demo](#)

- Fine-tuned an E5 embedding model on 108k card pairs so Magic: The Gathering cards with the same effect rank as similar, even when worded differently; built a SvelteKit site for browsing each card's nearest neighbours.
- Current model scored 0.714 development nDCG@10 against community tags, vs 0.604 for TF-IDF and 0.565 for untuned E5. I used these scores to select the model.

SCP Tracker - JavaScript | [Project links](#)

- Built a Chrome/Firefox extension for tracking reading progress across the SCP Wiki, with dictionary tooltips, cross-links, import/export and keyboard shortcuts; used by around 150 people daily.

AI Safety Programmes

LEAF / BlueDot Impact - AI Safety Fundamentals: AI Alignment

September - December 2024

- Completed technical readings, exercises and discussions on AI alignment, focusing on interpretability and scalable oversight; developed project ideas comparing circuits in small open-source models.

LEAF - Dilemmas and Dangers in AI

June - August 2024

- Studied technical and societal AI risks, with practical work on forecasting, model stress-testing, coding and governance.

Competitions

BPhO Computational Challenge 2024 - Gold Award

- Completed all nine core challenges in an interactive React PWA to simulate and visualise projectile motion, including bounces and air resistance.

UK Cyber Leaders Challenge 2026 - Regional Round Participant

- Worked in a four-person team on a simulated national cyber emergency, analysing technical and strategic risks and preparing a briefing for expert judges.

Experience

Us 2 U, Dumfries - Charity Board Member & Press Officer

November 2024 - Present

- Contribute to the charity's organisational planning and board decisions.
- Manage social media accounts, producing Facebook posts reaching 20,000+ people.
- Coordinate volunteer teams of up to 50 people for Christmas food parcel distribution.

Oxfam, Dumfries - Shop Assistant

May 2024 - December 2024

- Assisted with shop and POS operations, stock sorting, customer service and day-to-day IT support for volunteers.

Interests

- **Reading:** Sci-fi, fantasy and webnovels (on track to read 10 million words this year).
- **Tabletop & Board Games:** Regular *Magic: The Gathering* and board game player; member of the university societies for both.

Technical Skills

Languages: Python, Java, C, JavaScript, HTML/CSS, R

Frameworks and libraries: PyTorch, Hugging Face, React, Svelte, NumPy, Matplotlib, Jupyter

Tools: Git/GitHub, Linux, SQL/SQLite, REST and LLM APIs, Browser Extension APIs