

Harry Findlay

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EDUCATION

University of Exeter, UK

2021 – 2024

BSc Computer Science – Stage 3

Achieving a 1:1 (79%) with modules focusing on:

- Object Oriented / Procedural / Functional Programming
- Computer and Internet Systems
- Computational / Discrete Mathematics
- Linear Algebra
- Data Structures and Algorithms
- Artificial Intelligence and Machine Learning
- Computer and Network Security
- Computation and Complexity Theory

St John's Marlborough Sixth Form College

2019 - 2021

A-Levels: Computer Science (A), Maths (A), Physics (A)*

St John's Marlborough

2014 - 2019

10 GCSEs with majority 8s, 7s and 6s

RELEVANT PROJECT EXPERIENCE

Applying Deep Reinforcement Learning to Compiler Optimisation

Sep 2023 - Present

C, C++, Python, GCC, Machine Learning

- Exploring a novel area of research where I am applying modern machine learning methods to compiler optimisation with the aim to increase performance of compilers and the programs that they produce.
- Work on the project will include but is not limited to building an environment for an RL agent; designing and implementing a neural network; and writing a research paper with the goal of getting it published.
- Organising and attending weekly meetings with my supervisor to discuss any problems and ensure that my project is developed to the highest possible quality.

Bespoke E-Commerce Website, ExeChange

Feb 2023 – Mar 2023

Python, Django, Django REST API, React, PostgreSQL, Git, Docker

- Developed an e-commerce clothes trading marketplace exclusive to Exeter students in a team of six which achieved top marks.
- Individually implemented GitHub actions; user authorisation and authentication; email sending and verification; and integration testing.
- Guided group discussions to ensure ideas were rigorously developed within a demanding six-week timeframe.

Artificial Intelligence Maze Solver

Mar 2023

Python

- Developed a maze solving program to find paths through extremely large mazes.
- Achieved top marks (92%) by writing high quality and efficient code to implement A* and DFS algorithms.
- Explained and visualised my thinking in a concise report that covered all aspects of my program and provided reasoning for the algorithms I chose to develop.

C / C++ Programming Challenges – C, Memory Management, Data Structures, Algorithms

Mar 2023

Haskell / Prolog Programming Challenges – Functional and Logic Programming

Dec 2022

Multi-Threaded Card Game – Java, JUnit, Threading, Test-Driven Development

Nov 2022

Cycling Race Management System – Java, JUnit, Object-Oriented Backend

Nov 2022

Tetris Online Game – HTML, CSS, PHP, JavaScript, MySQL, Azure VMs

Mar 2022

EXPERIENCE

EXCODE, UNIVERSITY OF EXETER

Oct 2023 – Present

Workshop Leader

Teaching programming to up to 30 students at a time and allowing them to further develop their skills by providing information and guidance on extra resources, all as part of an initiative to enable students to learn the fundamentals of programming whilst at University.

UNIVERSITY OF EXETER CYCLING CLUB**Sep 2022 – Sep 2023***Welfare Officer*

Attending training on areas regarding safeguarding and welfare and being able to quickly and confidently answer any questions or concerns of members to ensure a safe and inclusive environment for all.

SAMUEL JONES, EXETER**Nov 2022 – Feb 2023***Front of House***THE ROEBUCK, MARLBOROUGH****Jul 2022 – Sep 2022***Front of House***MARLBOROUGH LEISURE CENTRE****Feb 2019 – Sep 2021***Lifeguard*

Worked as part of a small, tight knit team to uphold the strict safety standards required while supervising swimming pools and dealing with the day to day running of a community leisure centre.

MARLBOROUGH PENGUINS**Feb 2016 – Sep 2021***Volunteer Swimming Teacher*

Volunteered to help my local swimming club develop their younger swimmers fundamental water skills and swimming strokes to give back to the club that developed me as a swimmer and a young adult.

SKILLS AND INTERESTS

Cycling

Technology

Reading and Research

Environment

Music

Languages