

Alfie Rushby

Undergraduate, University of Nottingham

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Who I am

I am a second year student studying Computer Science and AI at The University of Nottingham. I have particular experience in C#, Vb.net, C, Lua, Python, Java and Haskell. I enjoy all aspects of Software Agile Development, particularly designing software systems.

Education

BSc Hons Computer Science with Artificial Intelligence, *University of Nottingham*.

September 2021 – now

- Average ~85% Grade for first year.
- Experience on the languages C, Java, Haskell and Python.
- Modules include a focus on practical software management and development, including a module focused on all stages of software engineering and agile methods.

9 GCSEs, 4 A-Levels, *Biddenden International School and Sports College*.

2016 September – 2021 July

- GCSE Grades **9-7**, English (**7**), Maths (**8**)
- A-Levels in Mathematics (**A***), Further Mathematics (**A***), Physics (**A***), Computer Science (**A***)

Technical Experience

- I am proficient in C#, Vb.net, and highly proficient in Lua, which I have learned in my own time.
- Have experience running linux web-servers, such as custom VPNs, setting up wordpress websites and coding PHP functionality.
- Have used SQL and integrated into a web-environment whilst avoiding obvious security risks.
- Learned C, Java and Haskell to a 1st grade in the first year programming modules.
- Used python with Pandas and NumPy to train some scikit-learn neural networks, decision trees and linear regression models to predict who died on the titanic.

Projects

2nd Year Group Project, *Group Admin*

2022 September – Now

- Assigned into a team of 7.
- Manage attendance, booking of meetings, and writing out reports.
- Uses communication skills for time management and assigning of tasks.

Software Engineering Group Project

2022 January – June, Summer Term Project

- In a team of 6 we were given a brief and the task of documenting and procuring requirements and diagrams.

- Implemented java unit and integration testing to adhere to system specifications.
- Learnt how to use Git issues extensively to delegate tasks.
- Achieved a group First.

Maths Homework Solver Project

2020 September - 2021 June

- Can be found Here.
- Extensive use of trees to solve calculus problems.
- Front-end interface to manage homework files and marking.

Extra-curricular

University Rocket Challenge, Software Engineer.

2020, Summer Term

- At school, our team was tasked with designing a payload to be put into a rocket.
- I was responsible with interfacing with a raspberry pi to record non-Newtonian liquid, using a camera and a LED circuit.

Villiers Park Education Trust, Scholars Programme, Sponsored by ARM.

2019, 5 day course

- Website created shown Here
- I was chosen as a 'STEM Scholar' and spent 5 days in a residential working with a team of 4.
- Was given the task to create a countdown game that found the largest 'rude' word from any input
- Presented a web-project to the class in a group and won the award of best presentation compared to 5 other teams.
- Learnt how to manage a workload in a group of varying skill-levels, and how to work under pressure.

STEM VEX Robotics Competition, Software Engineer.

2018 May - 2019 January

- Responsible for the software to drive a purpose built robot.
- I learnt how to interface various signals on a raspberry pi, and was frequently taking feedback from the hardware designer and users. - I had to learn to quickly fix unexpected bugs during the competition.

Awards

Principle's prize, Biddenham International School and Sports College 2021.

For attaining the highest A-Level result in the year.

UG High Achiever 1st Year prize, Nottingham University 2022.

For exam results.