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|  | Alfie Rushby  Undergraduate, University of Nottingham  71 Hadrian Avenue, Dunstable, United Kingdom  +44 07766 122932  rushbyalfie99@gmail.com |  |
| Who I am | I am a student who enjoys challenge. Mathematics is prevalent in all scientific subjects, including computer science, and thus I pertain great importance to understanding and appreciating it. Due to this, I enjoy teaching whenever I can, as it is the best method to learn. I also undertake many hobbies, such as programming games, piano, and reading. |  |
| Education | 9 GCSEs, 4 A-Levels, Biddenham International School and Sports College.  Grades 9-7, English (7), Maths (8), GCSEs  Mathematics (A\*), Further Mathematics (A\*), Physics (A\*), Computer Science (A\*), A-Levels | 2015-2020 |
|  | BSc Hons Computer Science with Artificial Intelligence, University of Nottingham. Average ~85% Grade for first year. | 2021-now |
| Relevant Modules | CS \w Maths 1, Grade 86%.  Learned Informal and Formal proofs, Set Theory, Graphs and Probability. Formal proofs can be used to define axioms and build numbering systems and operation functions.  CS \w Maths 2, Grade 79%.  Learned Linear Algebra, focused heavily on theoretical building and proving of Vector Spaces, Linear Mappings to transform such spaces, and how to represent these functions in terms of Matrices. |  |
| Extra-curricular | STEM VEX Robotics Competition, Software Engineer. Designed the software to drive a purpose built robot. | 2019 |
|  | Villiers Park Education Trust, Scholars Programme, Sponsored by ARM.  I was chosen as a ‘STEM Scholar’ and spent 5 days in a residential working with a team of 4.  Presented a web-project to the class in a group and won best presentation.  Learnt how to manage a workload in a group of varying skill-levels, and how to work under pressure. | 2019 |

University Rocket Challenge, Software Engineer. 2020

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.

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| 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. |
| Personal | Birth date: 2nd February 2003  Residence: United Kingdom |