

## Alfie Walliss

**Phone Number:** +44 7464626716

**Email:** [alfie.walliss@gmail.com](mailto:alfie.walliss@gmail.com)

**LinkedIn:** <https://www.linkedin.com/in/alfie-walliss-2392ba253/>

**GitHub:** <https://github.com/alfiewalliss>

## Personal Summary:

I am a motivated and enthusiastic Computer Science student studying at the University of Exeter due to graduate in the summer of 2023. I have a passion for software development and am proficient in multiple programming languages with experience in building applications individually and as part of a team. I have strong problem-solving skills required for software development and believe I am a quick learner allowing me to adapt to the new technologies and methods that are constantly evolving within the industry. I am seeking an opportunity in the industry to utilise my programming skills and develop as a professional.

## Work History:

### Casual Work as an Activity Assistant at Fishers Farm Park | 2019-Present:

- An award-winning adventure park where excellent customer service is the standard
- Working as part of a cohesive team is key for the smooth operation of the park
- My commitment is demonstrated by holding the same position for four years

## Education:

### Degree | 2020-2023:

- BSc Computer Science, University of Exeter (Graduation date: Summer 2023)
- Expected degree classification: 2:1 or First-class honours

### A-Levels Hurstpierpoint College | 2018-2020:

- Biology – A | Computer Science – A | EPQ – B | Maths – A

### GCSEs Hurstpierpoint College | 2015-2018:

- Biology – A\* | Chemistry – A\* | Computer Science – 8 | English Language – 8 | English Literature – 7 | Further Mathematics – A | French – B | Geography – 6 | Mathematics – 8 | Physics – A

## Recent Projects:

(All projects can be seen on GitHub)

### Dissertation Publication System:

I am currently working on a dissertation publication system allowing all students to post their dissertations to a centralised platform whilst being able to interact with one another. This is my biggest project to date and is the software accompanying my own dissertation. Excellent time management skills are required to meet all the relevant deadlines. I am following the agile development model using a variety of technologies such as Python, Django, HTML, CSS, Bootstrap and JavaScript.

### The Snail Game:

The Snail Game was designed to increase student socialisation in the transition between COVID lockdowns and more normal student life. Its aim was to encourage students to engage in university life, touring them around the campus in a gamified style. This was a group project where we displayed outstanding teamwork and organisation skills.

### Sudoku Solver:

I have developed a Sudoku solver using an Evolutionary Algorithm to attempt to solve Sudoku puzzles. I produced this in a Python notebook and investigated the effect of varying the parameters on the final fitness of a given solution. Before attempting this project, I had little knowledge of Evolutionary Algorithms and other nature inspired techniques so problem-solving skills were required to break the algorithm down into its modular parts. Since completing this project, I have studied similar Artificial Intelligent methods such as Ant Colony Optimisation, Genetic Programming and Particle Swarm Optimisation. I have also used a variety of different Machine Learning methods throughout my studies.

### Skills:

#### Programming Languages Used:

**Used in detail:** Python, Java, JavaScript, HTML, CSS

**Used in limited university modules:** C, C++, C#, SQL, Go, Haskell, Prolog

#### Soft Skills:

- Strong problem-solving and analytical skills
- Excellent communication and teamwork abilities
- Strong attention to detail and ability to multitask
- Adaptability and willingness to learn new technologies and programming languages
- Exceptional time management and ability to meet deadlines
- Strong critical thinking and creativity