

Joshua Lodge

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Education

Durham University

(September 2020 – June 2023)

Computer Science BSc

1st Year: Overall grade: 2-1 (63%)

- First year modules included topics such as programming, with focus on a full-stack web development project.
- Algorithms and data structures, computational thinking, mathematics for computer science, which gave a good intuition for the mathematical concepts behind other topics such as AI and ML.
- Computer systems which covered some lower level topics such as CPU architecture, scheduling and paging algorithms, and assembly language

2nd Year: Overall Grade 2-1 (62%)

- New modules, with more focus on applications of theory learned in year 1, for example data science, artificial intelligence, and networks and systems.
- Focus on programming in some modules, e.g., software engineering and programming paradigms learning C, Haskell
- Also more theory based modules such as Theory of Computation.

Greenhead College

(September 2018 – June 2020)

A-levels: Maths: A*, Computer Science: A*, Physics: A

Mirfield Free Grammar

(September 2013 – June 2018)

GCSEs: Maths: 8, English Language: 7, English Literature: 6, Computer Science: 8, Physics: 7, Chemistry: 7, Biology: 6, French: 7, Music: 6, Resistant Materials: A

Employment History

AP Motor Store

(July 2020 – September 2020)

- Warehouse packing
- Had to respond quickly and efficiently to instructions
- Had to work safely around machinery and following protocols
- Had to be adaptable, and learn new techniques quickly
- Working under time pressure

Charlottes Ice Cream

(July 2021 – September 2021)

- Running small outdoor children's rides
- Working with customers
- Communication and problem solving on a personal level
- Working reliably with money
- Following safety protocols

Additional Skills

Programming Languages

- Python
- Java
- C/C++
- C#
- HTML5, node.js, react.js
- I am fluent in many programming languages, and have experience doing large projects from scratch, as well as adapting existing projects to change or add functionality.
- I also have some experience in 3D modelling in Blender, having worked on some personal projects.

Presentation Skills

- During university, I have occasionally had to do presentations as part of coursework.
- Most recently, in the Software Engineering module, where we had to produce a video presentation detailing the current progress and future for the project.

Teamwork

- During several my projects, I have had to work in a group. This has meant that I have gained a lot of experience in group work, and I am good at working in group effectively and organising people to make sure that deadlines are made.

Extra-curricular

- I have played guitar and bass guitar for 7 years, demonstrating creativity and coordination. I have grades 3,5 and 7 in bass guitar as well as grade 4 in and 6 in electric guitar.
- I enjoy gaming, having recently taken part in an endurance sim racing event with a friend as well as competitive gaming through the university.
- I also love the outdoors, I am taking part in the inter-college university rowing, and I enjoy the mountains, skiing in winter and biking or climbing in the summer.

References

Mr S Lett, Principal
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