

# Oliver Denton

## Data Scientist & Software Engineer

✉ ojdenton1@sheffield.ac.uk ☎ 07964022921 🌐 oliverdenton.github.io/portfolio 📄 /in/oliver-denton1

## Experience

### A.I. Research Intern @ Defence Science and Technology Laboratory (U.K. Ministry of Defence)

June 2021 – September 2021 // Porton Down, Wiltshire

- Designed, developed, and tested deep learning models and generative adversarial networks for use in areas of image and natural language processing (work covered by security clearance).
- Wrote modern, performant and robust Python and PyTorch for a diverse array of use cases and model architectures.
- Helped solidify project direction by researching and building brand new proof-of-concept systems for a variety of applications.
- Communicated and collaborated with multidisciplinary teams of engineers, military advisors, and industry partners. Presented work and ideas on a regular basis.

### Technical Writer (Freelance) @ Data Driven Investor

March 2021 – Present // Remote

- Written several articles for a popular online publication, mostly about artificial intelligence and finance.
- Role involves careful research, planning, fact-checking as well as making alterations based on feedback.

### Lab Demonstrator @ University of Sheffield

September 2021 – Present // Sheffield, South Yorkshire

- Currently supporting three undergraduate computer science modules ('Introduction to Software Engineering', 'Web and Internet Technology', and 'Programming, Problem Solving and Object-Oriented Design').
- Explaining complex, abstract concepts to students from both technical and non-technical disciplines.
- Guiding students through problem solving as well as fixing bugs and resolving technical issues.

### Tutor @ Fire Tech

May 2021 – Present // Remote

- Taught several computer programming courses including Java, Python, and web development amongst other introductory modules to small groups of children aged 8 – 17.
- Planning lessons, grading assignments, and giving useful feedback.

### Team Member @ Greggs

May 2017 – June 2021 // Sheffield, South Yorkshire

- Part-time role held from the age of sixteen. Served customers and fulfilled other responsibilities.
- Learned about cash handling, following instructions, taking the initiative and clear communication.

### Industrial Placement @ Metalysis Materials Discovery Centre

June 2028 – July 2018 // Advanced Manufacturing Research Centre, Rotherham

- Worked in both research and development and analytics departments.
- Key responsibilities included running and maintaining electrolysis experiments, taking, measuring, and recording samples.
- Helped develop a neodymium-iron-boron alloy for use in magnets.

## Education

### BSc Artificial Intelligence and Computer Science @ The University of Sheffield

2019 – 2022

Currently in third year on track to graduate with a first-class degree in 2022,  
Second year overall grade: 83.0%,  
First year overall grade: 75.7%.

### IBM: Deep Neural Networks with PyTorch @ Coursera

Summer 2021

Completed a 7-week course covering building and evaluating multiple machine learning models.  
Grade achieved: 84.9%

### A-Levels @ Aston Academy

2017 – 2019

Computer Science – A  
Physics – A  
Mathematics – B  
Extended Project Qualification (Quantum Computing) – A\*

### GCSEs @ Aston Academy

2012 – 2017

9 A\*s, 2As, 1B (including Mathematics – A\* and Computer Science – A\*)

## Skills

### Programming Languages

Python, Java, Ruby, JavaScript, Haskell, SQL, HTML, CSS

### Libraries and Frameworks

PyTorch, Bootstrap, Ruby on Rails

### Tools and Platforms

Git, MySQL, SQLite

## Interests

Basketball, skiing, reading, travelling, hiking