

# Oliver Denton

## SOFTWARE ENGINEER

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🔗 <https://oliverdenton.github.io/portfolio/>

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### PROFESSIONAL SUMMARY

Studying Artificial Intelligence and Computer Science has made me a methodical and analytical student who is not afraid to ask questions or learn new skills and languages quickly. I have particular interests in backend development and machine learning. I look forward to working with new technologies and frameworks to help me establish a clearer vision for my career and gain experience in the field. I am keen to see how teams of software engineers operate in a professional environment.

### EXPERIENCE

#### Team Member

April 2017 - Present

##### Greggs

Started working at the age of sixteen. Most of my time is spent on the shop floor serving customers and fulfilling other responsibilities. Learned about following instructions, taking the initiative and clear communication.

#### Work Placement

Summer 2018

##### Metalysis Materials Discovery Lab

Spent time in both research and development and analytics departments. Key responsibilities included running and maintaining electrolysis experiments and taking and measuring samples. Attended several seminars and helped develop a neodymium-iron-boron alloy for magnets. Learned about integrating with new teams and using unfamiliar procedures and software.

### PROJECTS

#### Supervised Learning Wine Classification

Implemented a Bayesian classifier to solve a 13-dimensional classification problem (to determine the type of grape used in a given wine). Iteratively improved the classifier, settling on a 'leave-one-out' approach. Final classifier is 99.4% correct.

- Python

#### Building a Blockchain

Created my own 'block' and 'blockchain' data structures. Implemented the Bitcoin proof-of-work concept so that blocks could be 'mined' and added to the chain.

- Python

#### Stock Market Analysis

Web-based stock market prediction and visualisation software. Involved fetching, graphing and manipulating large historical data sets. Programmed and combined multiple analysis tools in attempt to predict a future trend.

- Python, JavaScript, PHP, SQL, CSS

### EDUCATION

#### BSc Artificial Intelligence and Computer Science

2019 - Present

##### University of Sheffield

- Currently in second year, on track to graduate with a first-class degree
- First year overall grade: 75.7%
- Scrum master in first year software engineering group project. Created a 'bookmark management system' using Ruby, SQLite

#### A-Levels

2017 - 2019

##### Aston Academy

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

#### GCSEs

2012 - 2017

##### Aston Academy

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

### SKILLS

Java   Python   JavaScript

Machine Learning   Bootstrap 4

CSS   Haskell

### REFERENCES

- Maria-Cruz Villa-Uriol, Personal Tutor and Lecturer – [m.villa-uriol@sheffield.ac.uk](mailto:m.villa-uriol@sheffield.ac.uk)
- Ian Mellor, Managing Director, Metalysis – [ian.mellor@metalysis.com](mailto:ian.mellor@metalysis.com)
- Gavin Jackson, Shop Manager, Greggs Earl St. – [gaviinj@yahoo.com](mailto:gaviinj@yahoo.com)
- Lee Nicholson, Head of Sixth Form and Physics Teacher – [lee.nicholson@astonacademy.org](mailto:lee.nicholson@astonacademy.org)