Oliver Denton

SOFTWARE ENGINEER | BLOCKCHAIN WRITER & RESEARCHER

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

in /in/oliver-denton1

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 blockchain, 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. Keen writer with an eye for detail.

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

EXPERIENCE

Team Member
Greggs
April 2017 - Present

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
Metalysis Materials Discovery Lab
Summer 2018

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.

EDUCATION

MComp Artificial Intelligence and Computer Science
2019 - Present
University of Sheffield

- Currently in second year, on track to graduate with a first-class degree
- Second year overall grade (autumn semester): 87.7%
- First year overall grade: 75.7%
- Scrum master and technical writer 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   Technical Writing

Machine Learning   Bootstrap 4

CSS   Haskell   JavaScript

REFERENCES

- Maria-Cruz Villa-Uriol, Personal Tutor and Lecturer – m.villa-uriol@sheffield.ac.uk

- Gavin Jackson, Shop Manager, Greggs Earl St. - gaviinj@yahoo.com

- Ian Mellor, Managing Director, Metalysis - ian.mellor@metalysis.com