

David Spray

Work Experience

Software Engineer, Size Me Up Ltd

(January 2019 - present)

Duties include:

- Development of a Python Flask API utilising new, cutting edge machine learning technologies with the goal of producing an individual's measurements from a photograph
- Gathering, managing, and filtering of large datasets for training a convolutional neural network
- Maintenance of the current codebase
- Working as part of a team of developers

Technical skills:

- Creation of computer vision and deep learning algorithms in Python using the Tensorflow and Keras
- Implementation of continuous deployment/integration using Jenkins
- Version control with Git as part of a team

IoT Security Research Consultancy, Copper Horse Ltd

(July - September 2018)

Duties include:

- Creating and organising a large dataset pertaining to security in IoT devices and ensuring accessibility to the general public.

Technical Skills:

- Production of high-quality published research in a highly technical field.
- Creation and management of a large dataset.
- Presentation of large amounts of data in an easily digestible manner.

Education

York St John University

(2015 – 2018)

BSc (Honours) Computer Science

1st Class Honors

Modules Include:

- Maths for Computing, Computer Systems Fundamentals, Technology in Context, Software Engineering and Multimedia, Introduction to Programming, Data and Information Management, Software Engineering, Philosophies of Technology, Professional Practice, Network Infrastructure and Management, Mobile Application Development, The Internet of Things, Human Computer Interaction, Artificial Intelligence, Cybercrime Security, Computer Science Project.

Technical Skills:

- Various Programming Languages including Java, C#, Python, and C++
- Development of mobile applications for Android (Using Android Studio)
- Unit testing and high-standard code documentation
- Industry Standard practices such as Agile
- Strong numerical and mathematical skills

New College Durham

(2013-2015)

BTEC Level 3 in Computing:

Distinction*, Distinction*, Distinction*

Sedgefield Community College

(2006- 2011)

7 GCSEs, grade C-B including Maths, English, and Sciences

Skills

Computing Skills

Programming languages: Java, C#, Python, JavaScript (Vue.js and React)

Concepts: Machine Learning (Tensorflow, Keras), Computer Vision, Agent-based systems

Other skills

Time management, writing and presenting reports, high level analytical and critical thinking, creative and innovative approach to difficult problems, and an independent and highly motivated approach to work. Conversational level French language proficiency.

References

Available on request