

# Jack Sanderson

🏠 Bristol, BS2 0PL

✉ sandersonjack02@gmail.com

☎ 07737791431

in jack-sanderson-02

🌐 0023jas.github.io

## Objective

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Looking to help build the future!

## Education

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### M.Sc. Data Science | University of Bristol

**2023 - 2024**

Currently undertaking and enjoying the degree studying everything from Large-Scale Data Engineering with AWS, to Machine Learning and Large Language Models.

### B.Sc. Computer Science | Cardiff University

**2020 - 2023**

Graduated scoring first class with honours.

## Technical Skills

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### Programming and Scripting

- **Python:** Expert level experience for a wide number of applications inside and outside of the data science domain.
- **Python Data Stack:** Deep experience with popular data science tools such as Numpy, Beautiful Soup, Pandas, Matplotlib, and Seaborn.
- **Python Machine Learning Stack:** Experience with popular machine learning tools PyTorch, scikit-learn, and TensorFlow.
- **Python Back-end Stack:** Deep Experience with both Django and Flask.
- **R Programming:** Experience working with R programming and the Tidyverse data science stack.
- **Web Based Data Science:** Experience working with HTML, CSS, JavaScript and Chart.js.

## Data Engineering

- **SQL:** Experience with MySQL, Oracle SQL, Oracle Databases, and SQLite.
- **NoSQL:** Experience with both MongoDB and Neo4J.
- **Cloud Computing:** Experience working with AWS including Elastic Compute, Simple Storage Service, Relational Database Service, and more.

## Miscellaneous

- **L<sup>A</sup>T<sub>E</sub>X:** Experience working with L<sup>A</sup>T<sub>E</sub>X, including the creation of this Résumé.

## Noteworthy Projects

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### Data Science

- **Bachelor's Thesis:** Conducted analysis on the Ethereum blockchain to understand the impact of an important update on the transaction fees paid by the users.

### Machine Learning

- **ASCII-to-Image | GitHub:** Built and trained a Generative Adversarial Network that can convert an ASCII image to a full coloured image using the Pytorch-CycleGAN-and-pix2pix library.

### Distributed Systems

- **Ethereum Mine:** At 15 I sold shares and raised capital in an ethereum mine I built in my parents' basement. The ethereum mine was very profitable with investors receiving 10-100x returns over the course of the 3 years.

## Relevant Subjects

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### Bachelor's Level

- **CM1208 Maths for Computer Science:** Achieved 73%
- **CM2207 Introduction to the Theory of Computation:** Achieved 73%
- **CM2307 Object Orientation, Algorithms, and Data Structures:** Achieved 67%
- **CM2203 Informatics:** Achieved 71%
- **CM2102 Database Systems:** Achieved 75%
- **CM3104 Large-Scale Databases:** Achieved 70%
- **Bachelor's Dissertation:** Achieved 73%

## Master's Level

- **Large-Scale Data Engineering:** Working on it!
- **Statistical Computing and Empirical Methods:** Working on it!
- **Visual Analytics:** Working on it!
- **Introduction to AI and Text Analytics:** Working on it!
- **Master's Thesis:** Working on it!

## Certifications

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### Cloud Engineering

- **AWS Academy Graduate - AWS Academy Cloud Foundations:** Worked with a variety of technologies within Amazon Web Services and built a variety of small applications for a number of use cases.

## Extracurricular Activities

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### Charity Work

- **Enactus Cardiff:** Played a key leadership role in running a profit generating business that used the profits to help the homeless in Cardiff.