JACK

SANDERSON

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OBJECTIVE

Focused on the bleeding edge of technology and innovation with a keen interest in data science. Very ambitious with a proven ability to solve complex problems.

EDUCATION

IB Diploma | Gems American Academy Abu Dhabi

01/09/2018 – 01/05/2020

Scored a strong 33 IB Points, AAB equivalent, while taking the hardest classes I could get my hands on, including both physics and computer science at higher level.

B.Sc. Computer Science | Cardiff University

30/09/2020 – 01/08/2023

Completed the Degree scoring first class with honours.

M.Sc. Data Science | University of Bristol

30/08/2023 – 01/08/2024

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

PROJECTS

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.

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.

Bachelor's Thesis

Conducted research on the Ethereum blockchain to understand the impact of an important update on the transaction fees paid by the users.

Currently Working On

I'm currently working on all sorts of projects from a tool that tracks space infrastructure such as the ISS and satellites, Machine learning models that classify different pictures, and video games that play themselves.

RELEVANT GRADES

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

SKILLS

- Well-travelled, lived in 5 different countries and 3 separate continents.
- 7+ years experience with Python
- 4+ years experience with data science tools such as numpy, pandas, matplotlib, and seaborne
- Confident with TensorFlow, Pytorch, SciKit-Learn, and BeautifulSoup
- 1 year experience with R
- 4+ years experience with Django and Flask
- 7+ years experience with Javascript, HTML, CSS
- 3+ years experience with SQL
- Confident with MongoDB
- Confident with Neo4J
- Ability to pick up new skills quick

ACTIVITIES

Member of Cardiff Enactus

I was a proud member of Cardiff Enactus, a society focused on doing effective charity work. I was involved in running a scented candle business where all the profits go to helping other projects in the society, mainly including the work done to help the homeless in Cardiff.