

JACK SANDERSON

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github.com/0023jas



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 – 01/05/2023

Currently on a first-class degree focusing my studies towards fintech, data science, and practical programming skills.

M.Sc. Data Science | Edinburgh University

30/08/2023 – 01/06/2024

I have been accepted and will be continuing my studies after my bachelors degree has finished



PROJECTS

Ethereum Mine

01/01/2017 – 01/05/2020

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.

Ethereum Universe

15/04/2021 – 01/08/2021

My interest in financial markets led me to create an ethereum token price tracker website with a focus on the ethereum ecosystem. This then morphed into an ethereum blockchain analytics website.

Obelisk Python Wallet | [Github](#)

13/02/2021 – 01/03/2021

My interest in cryptocurrency led me to develop a basic ethereum wallet that works in the command line.

S&P500 Return Calculator | [Github](#)

01/06/2021 – 25/06/2021

After an argument with my dad about the minimum amount of money needed to retire, and the maximum withdrawal rate one could take out of an SP500 index fund I designed a program that analyzes nearly 150 years of historical price data, dividends, and inflation to find the answer.

Writing Article for Published Author | [code.energy](#)

01/06/2021 – 25/06/2021

After reading the book Computer Science Distilled, I decided to reach out to the author to tell him how much I liked the book. I also asked why he decided not to open source the writing process as I felt that I and others could help. He stated that if I wished to help, I could first write an article on his blog about a computer science topic I was interested in. I decided to write about scaling blockchains as at the time it was very topical.

Stock Exchange

01/10/2021 – 01/05/2022

I'm currently working with a group on a stock exchange app for university. The app will feature in-depth financial data of the largest companies and assets. The app will have to be finished before may.

Whiptail Forecasting DAO | [Github](#)

05/08/2021 – 15/08/2021

I took part in an ethereum hackathon with a team of friends in which we wrote a forecasting dapp. The project won a portion of a prize pool equating to roughly 800\$ of which I got approximately 300\$. Full details can be found in the GitHub linked.

Fraudulent Money AI

05/08/2018 – 01/05/2019

In the penultimate year of highschool I designed and built an image recognition neural network that could detect fake banknotes.



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%



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 seaborn
- Confident with TensorFlow, SciKit-Learn, and BeautifulSoup
- 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'm a proud member of Cardiff Enactus, a society focused on doing effective charity work. I'm currently involved in running a scented candle business where all the profits go to helping other projects in the society. These projects include helping refugees and popularizing the use of medicine for cattle to reduce methane emissions.

Part-Time Writer at Code.Energy

I occasionally write articles about blockchain for the author of both Computer Science Distilled and Computer Science Unleashed. We are hoping to compile these articles into a book in the coming years.