

Jordan Lloyd

1st Class Computer Science and Mathematics graduate.

Well experienced in corporate environments.

Entrepreneur with a keen interest in Technology, Machine Learning, Blockchain Technology and living abroad.



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PROJECTS

Blockchain Satellite Tracking and Prediction Application

- Developed Smart Contracts for a decentralised ledger storing Satellite Data
- Tracked and predicted satellite positions whilst providing visualisation.
- Achieved 79% for this dissertation and Utilised Python, SQL, Solidity & Web3.

Software Engineering – Events Booking Website

- Utilised agile programming methods, paired programming and Spring Boot microservice. Implemented APIs such as MapBox and Twitter.
- Achieved 100% in this module.

StudentHackVII – 24hr Hackathon

- Designed a program that would allow a player to use a Myo, motion sensor, armband to play Tetris.
- Communicated effectively and dealt with pressure to complete the project.

“Golly’s Adventure” – Machine Learning Tool for Education

- Developed a Reinforcement Learning simulation in Team Project module.
- Utilised Unity and C#.
- Awarded Best Project Concept by module leaders.

Machine Learning Face Recognition

- Implemented, mathematically, a ridge regression model in order to classify and predict faces visually.
- Utilised Python.

WORK EXPERIENCE

Rothschild & Co, London

Wealth Management Intern

Jun 2021 – Aug 2021

- Contributed positively to the client teams with unique prospecting strategies, asset presentations and delivered asset research
- Developed a Natural Language Processing programme used to identify key-words within company documentation
- Resulted in my keywords being used to identify potential investments by the equity team and my asset research being sent to clients

Deutsche Bank, London

Summer Technology Intern

Jul 2020

- Analysed and predicted COVID-19 rates and cases in different counties with Machine Learning Models in Azure Cloud
- Utilised Numpy, Pandas, Matplotlib and SK-Learn
- Developed a blog site by utilising React, Flask and SQL

Squirrels Bar - University of Manchester

Bartender

Sep 2019 – May 2021

- Deliver a quick, reliable service in a fast and demanding environment
- Working whilst studying ensures my organisation skills remain sharp

NHS - Sandwell General Hospital, Birmingham

Surgical Ward Clerk

Jun 2019 – Sep 2019 | Dec 2019 – Jan 2020

- Devised and built medical documents for all patients coming for surgery whilst organising admittance and locating patients
- Commended for work rate by the ward manager and later offered a full-time position past this summer

NHS - Sandwell General Hospital, Birmingham

E-Rostering

Nov 2017 – Mar 2018

- Honed communication and teamwork skills by consistently solving E-Rostering problems efficiently
- Our work led to a reduction of reports by 12% and winning “Non-Clinical Team 2018”

EDUCATION

2018 – 2021

Bsc. Computer Science and Mathematics

First Class Honours

Societies: CS, Finance, SpaceDev

University of Manchester

2010 – 2018

King Edward VI Aston School

A-levels: A*, A, A

Mathematics, Computer Science, Economics

GCSE: 4A*, 5A, 2B

AWARDS

2019 Best Team Project Application

University of Manchester - Team project module

2019 Event of the Year

University of Manchester - Student Union

2018 Best Sportsman of the cohort

King Edward VI Aston School

2018 Best Non-Clinical Team

NHS - Sandwell and West Birmingham Hospitals Trust

2016 English Schools: U17 National Record in Relay

West Midlands Athletic Representative

COMPUTER SKILLS

C/C++, ~~LaTeX~~ LaTeX, JavaScript, Solidity, Matlab, Java, Python, C#, HTML, CSS, SQL, Microsoft Windows, Linux, Git, React.js

ROLES AND ACHIEVEMENTS

2018 – 2019 Treasurer

Student Union - Richmond Park

2017 England Athlete - Triple Jump

Welsh International

2016 – 2017

House Captain, Athletics Captain, Senior Prefect

King Edward VI Aston School

VOLUNTARY EXPERIENCE

Sickle Cell Mentor

2019

Due to my successes academically and in sports; teachers and other family members have asked me to mentor other young children with Sickle Cell Disease

School Mentor

2017

I volunteered to work with pupils in the lower years with behavioural issues or facing problems with their grades.

Kit Carrying

2012 – 2016

Kit carried at large international events such as The European Indoor Championships and the World renowned Diamond League.

PROJECTS IN DETAIL

Blockchain Satellite Tracking and Prediction Application

Python, Web3, MySQL, JavaScript, Bootstrap5, Microservice(Flask), Google Maps API, Skyfield API, N2yo API

Developed Smart Contracts for a decentralised ledger storing Satellite Data. The program tracked and predicted satellite positions in real-time whilst providing visualisation using Google Maps. It's capable of using the user's location to provide data on nearby overhead satellites. Achieved 79% for this dissertation.

Software Engineering – Events Booking Website

Java, Bootstrap5, Microservice(Spring Boot), SQL, Twitter API, MapBox API.

Developed an Events booking website for a software engineering module. This team project utilised agile programming methods, paired programming and Gitlab workflow version control. We provided visualisation using maps and implemented Twitter accessibility. Each member had experience with all components of the program. Achieved 100% in this module.

“Golly’s Adventure” – Machine Learning Tool for Education

C#, Unity

For my Team project module, we developed a Reinforcement Learning simulation. Our ambition was to introduce machine learning concepts to kids by demonstrating Reinforcement Learning through a game. “Awarded Best Project Concept” by module leaders.

Machine Learning Face Recognition

Python, Panda, scikit-learn, matplotlib

For a machine learning module, I implemented a ridge regression model, mathematically, in order to classify and predict faces visually. We were given images of faces to train and optimise the model. In addition, images of face portions to test the models. I determined the accuracy of my models by using the f-score and Mean Squared Error.

Simulated Trading Platform

C#, SQL

I self-taught C# in order to create a platform that would allow users to invest in simulated shares of FTSE500 companies. I used SQL to query Yahoo Finance data to provide historical and real-time graphical data. In addition, I provided visual line graphs of stock prices with a variety of timescales. I decided to implement this program so I could improve my financial understanding of asset classes. I achieved an A* grade for the Computer Science A-level coursework.

1:1 Chat Client

Python, Tkinter, SSL

Used python to create a server and build a chat client. I made a basic GUI with Tkinter. Common chat client frameworks were implemented. Involved the use of sockets as well as designing protocols for a client-server architecture.

Particle System

JavaScript, Babylon.js

Developed a black hole particle system for my Advance Computer Graphics module. My model included 2 CPU and 1 GPU generated particle systems. I followed the law of motion physics to portray an authentic black hole experience. I also built button-click interaction to display possible black hole instability. I achieved 90% for this project and achieved a 1st class grade for the module.

NLP Inverted Index and RDF Index

Java, Apache Hadoop, Apache Jena

Developed an inverted index used to navigate and explore the relationships between files. I implemented case-folding, stemming, stop word removal and term frequency output. I also implemented an in-mapper combiner to reduce processing time. I applied logarithmic calculations to provide the term frequency - inverted document frequency (td-idf) to provide insight into the word importance. My RDF index was used on similar topics as the inverted index.

NLP Keyword Extraction - Rothschild Co

Python, NLTK, Panda, scikit-learn, matplotlib

During my Rothschild & Co internship, I developed a NLP keyword extraction program to filter potential investment prospects for our equity research team. These keywords were used to identify common vocabulary in our portfolio. My results were then given to the Portfolio Managers and I was then asked to complete a Machine Learning Implementation report on where we could implement the technology to improve profits.

COVID-19 case prediction - Deutsche Bank

Python, NLTK, Panda, scikit-learn, matplotlib, Tableau

For a team project, we delivered a presentation on the predicted R rate and cases of COVID-19 in the USA. For my part, I developed, trained and optimised the regression models. These included: Linear, Ridge, Decision Tree, Random Tree and KNN regression.