

# JAY NGUYEN

Birmingham, United Kingdom

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## Technical skills:

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**Programming languages** : Python, Java, HTML, CSS, JavaScript, MySQL, and PHP.  
**Tools** : VS Code, Git, Sci-Kit Learn, AWS S3 – Comprehend, Word, and Excel.  
**Used briefly in assignments** : Programming R, C and Apache Spark.

## Experiences:

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**Waiter, Pizza Express** London, Nov 2022 – February 2023

- Demonstrated effective teamwork and communication skills, by actively listening to the customers and colleagues to provide a good customer service in a fast-paced environment, whilst delivering food on time.

**Brand ambassador, upReach** Liverpool, Aug 2020 – July 2021

- Represented, collaborated, and communicated to university societies about the purpose of upReach. This attracted **10+ University of Liverpool students applying to upReach** to support their careers.

**Investment banking and markets intern, upReach** London, June 2020 – July 2020

- Wrote **equity research reports** on why a stock is a **strong** or **weak** buy, from analysing the business **P/E ratio, cash flow, statements, and balance sheets**, networked and pitched to Bank of America employees.
- 5-week intensive internship requiring **daily team meetings, networking** in the industry, **weekly rotations**.

## Projects:

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**Reddit sentimental stock market analysis webapp** | *Python, Pandas, JavaScript, HTML & CSS*

- Developed an application that determines the sentiment of reddit posts, in **Python** by web scraping reddit data, yfinance and **AWS Comprehend API's** – All in **real-time data cleaning and data manipulation**.
- Visualised the analysis through graphs using **HTML & CSS** with **JavaScript** and **Streamlit** on a webpage. Depending on the subreddit and number of posts, depended on the results, positive or not.
- The outcome of the analysis can aid whether a business or the trader invests in a stock or an industry.

**Credit card fraud detection analysis** | *Python*

- Programmed application to predict users credit card fraud, using credit card Kaggle dataset to clean the data, **logistics regression** to predict, using **Python** and **SK-Learn** machine learning library.
- Visualised the analysis, using **Matplotlib** to create **ROC curve** and **confusion matrix** graphs.

**Artificial Intelligence (A.I) Submarine webapp game** | *JavaScript, HTML & CSS*

- Programmed a player vs submarine game using **JavaScript, HTML** and **CSS**, with a form of intelligence by programming the **breadth first search** algorithm.

**Secretary, LivEvents group project** | *SQL, PHP, JavaScript, HTML & CSS*

- Built an Ecommerce website, consisting of user's details, booking and comments on events and **hashing** data.
- Taking responsibility of arranging and taking notes during weekly meetings. Achieved **72%** for the project.

## Education:

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**University of Liverpool**

Computer Science BSc (Hons)

Relevant modules: **Data Science, Computer Trading, Big Data, Scripting Languages, Complex Algorithms.**

Liverpool, United Kingdom

September 2018 – December 2022

**Holyhead School**

A-Levels: Mathematics, Business, Media

Birmingham, United Kingdom

September 2016 – August 2018

## Extra-curricular:

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**President, Liverpool Banking and Finance Society**

Aug 2020 – July 2021

- Leading weekly meeting and events consisting of **15+ weekly active members** and **250 total members**.
- Programmed the LUBFS website using **HTML, CSS**, and **JavaScript** to share to news for the 250 members.