

Education

BSc (Hons) Computer Science, University of York.

(2021- 2024)

Relevant Courses: Data structures & Algorithms, Machine Learning & Optimisation, Systems & Software Engineering.

Skills

Programming: Python, Java, PHP, JavaScript, TypeScript, SQL

Other: React, Angular, Express, Laravel, Apache Spark, Bootstrap, HTML, CSS, Git, Azure

Experience

OEM secrets - York

Data and App Development Intern

(Jan 2022 - Mar 2022)

Part-time intern during my first year.

- Created scraping software to collect data from a variety of formats such as APIs, HTML, XML, JSON and CSV files using the BeautifulSoup4 and Selenium **Python** libraries.
- Extracted, parsed and then cleansed the data in a MariaDB server by running **SQL** queries.
- After collaborating with the marketing team, I built 5 plugin concepts for sales pitches to convince manufacturers' sites to run our search engine on their pages (**HTML, CSS, JavaScript**).

Junior Web Developer

(Apr 2022 – Present)

Successful in my initial internship, began full-time in the summer.

- Created an API and **JavaScript** Plugin using **Native PHP** and **Native JavaScript** that displays custom product data for an advertising banner that can be placed on third-party sites.
- Implemented a new plugin for a weekly electronics trade journal that helped drive more traffic through the site (**HTML, CSS, JavaScript**) - [Website](#).
- As a small team, we redesigned the details page for individual components to include the data I had scraped to ensure the pages became indexed by Google (**Smarty, PHP, Bootstrap 4, CSS, JavaScript**).

Projects

Stocks Post Recommender - [GitHub](#), [Website](#)

- Began the project to help make accessing stock research easier for retail investors, filtering out the bad posts by using machine learning (supervised classification based on stock growths and text data) to save time.
- Pre-processed large amounts of data obtained from Reddit using the Push shift API and labelled each post with the growth of the stock being recommended (**Python, MySQL, SparkNLP**).
- Trained a model with the Naïve-Bayes algorithm which can detect if a Reddit stock post is worth looking at or not with 75% accuracy (**scikit-learn**).
- Built a full-stack web application to feature my results by building an API endpoint to fetch information from the database and a **React** library to render my 14,000-row database using server-side pagination (**Express, Node, React, JavaScript, HTML, CSS**).
- Deployed Server and Website to **Azure**.

Social Media Application – [GitHub](#)

- Developed a basic social media application that allows CRUD operations on the register, login, post, comment and add new friends' system (**PHP, Blade, Laravel, JavaScript, HTML, Bootstrap 5, MySQL**).
- Created and tested API endpoints for CRUD operations with Postman
- Used **Laravel** Migrations, Seeding and Telescope to debug and improve the efficiency of the application.
- Setup a Linux virtual machine for the development environment using Vagrant

Weather Widget - [GitHub](#), [Website](#)

- Built a responsive weather app that can get the current data for over 200,000 cities using the Open Weather API (**Angular, TypeScript, HTML, CSS**).
- Used Angular forms to get the user input and search by city name and country code.
- Designed the overall website concept/layout & deployed to **Firebase**.

Extracurricular

- Analyst for the Griff Investment Fund, a student-run equity portfolio managing £15,000. Gained experience in presentation technique, financial terminology and valuation methods.
- Wrote a published article for the university newspaper about York's burgeoning tech sector, where I interviewed CEOs, Tech leads and marketing consultants.
- Active Member of the Computer Science Society responsible for presenting on areas of my interest.
- Achieved an A in my EPQ on 'The impact of the 2008 global recession on the US and China'.