Ira James Watt

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Personal Statement

I am a recent Newcastle University graduate with two years of full-stack software development experience and have an enthusiasm for data science. I graduated with a BSc Hon 1st in Computer Science, achieving an 80% average. I've worked with various technologies including, Google Analytics, SQL Server Management Studio, Python ML, and Power BI. Just recently, I completed a DataCamp course in fraud detection in Python. I also just finished a project building a machine learning model to forecasted national electricity demand.

Work Experience

Junior Developer– The North of England P&I Association Limited   **2020-Present**
Responsibilities: Provide third line support across the business, primarily working on reporting, developing the company's policy management system, and maintaining ETL pipelines in SSIS.
Achievements: Led automation around currency exchange rate information, saving countless business hours. Created custom Power BI reporting around the service desk, improving the cohesion between the business and development team.

Applications Developer Placement – Newcastle University IT   **2018-2019**
Responsibilities: Develop applications for both student and academic bodies.
Achievements: Led the development of the university's new scanner attendance web service. Successfully advanced and deployed versions of the university app and library desktop app. Trained new placements.

Education

Newcastle University - BSc Hon 1st in Computer Science with Industrial Placement   **2016-2020**
Achieved a first class in my 'Biologically Inspired Computing' module in which I trained multiple machine learning models in classification based tasks. Participated in Hackathons. Acted as lead developer in team project building an Android app. Active in the NUOTC (Northumbrian Universities Officers Training Corps).

DataCamp - Fraud Detection in Python   **2020-2020**
Covered data resampling methods, supervised/unsupervised models, and text mining for fraud detection.

LinkedIn Learning - Excel Essential Training, Data Science Fundamentals and Learning Data Governance   **2020-2020**

Prudhoe Community High School - 3 A-Levels & 12 GCSEs   **2012-2016**

Personal Projects

National Demand Model ⚡ (Python – Sklearn, Numpy, Matplotlib & Pandas)   **2020-2021**
The model, back with strong analysis, uses multilinear regression to predict the national energy demand. The data used includes historical ND (national demand) data gathered from the National Grid ESO and London's daily average temperature scraped from weather.com to make its predictions. Full documentation on GitHub.

Algo2k 🔣 (PWA, Node.js, Python – Matplotlib & Pandas, Firebase)   **2019-2020**
Developed as part of my dissertation, Algo2k is a web app designed to perform validation/backtesting on Python-based algorithmic trading strategies. The site standardised the validation process to reduces biases such as survivorship, optimization, and look ahead biases.

Web Portfolio 🆔 (Angular2, Chart.js, Three.js, JQuery, Bootstrap, Firebase)   **2019-2019**
The site showcases much of my work at university and on placement. The full version is available on desktop.

Contributions and Interests

❖ **Stack Overflow** – 1,500 Reputation with over 50 questions answered (stackoverflow.com/users/10053793).
❖ **National Citizen Service** - Helped improve local communities in my home area.
❖ **Other Hobbies** - I enjoy strategy games, running and gym.

Proficiencies

Excel ●●●●○	Python ●●●○○	SQL ●●●●○	Azure ML ●●●○○	Power BI ●●●○○	R ●●○○○