

# Luke McClure

Mob: 07713831840 | Email: [lukemcclure71@gmail.com](mailto:lukemcclure71@gmail.com) | GitHub: [/lukemccl](#) | LinkedIn: [/in/luke-mcclure/](#)

I am a keen learner who enjoys the opportunity to take on new challenges and to push myself. I am passionate about my interests and I throw my all at what I am doing to not just achieve my objectives but excel in them.

## Experience

### FULL STACK SOFTWARE ENGINEER | APRIORI TECHNOLOGIES | JULY 2022 – PRESENT

- Brought 2 (web and electron) internal apps to initial release – increasing test coverage from <5% to >95% on each.
- Introduced ML technologies to the company through hackathon that placed 1st in voting and presented to executive board.

### SOFTWARE ENGINEER INTERN | JP MORGAN | JUNE 2019 – AUGUST 2019

- Developed understanding of Agile methodologies, independently completing stories and working with the team.
- Utilised unfamiliar technology JS React effectively, able to quickly learn and understand new technologies.

## Education

### MENG COMPUTER SCIENCE WITH AI | UNIVERSITY OF SOUTHAMPTON | 1<sup>ST</sup> CLASS HONS | 2017 – 2021

Algorithmics (inc data structures) - 74	Data Management - 65	Foundations of ML - 62	Programming 1, 2 & 3 - 82
Reinforcement & Deep Learning - 70	Intelligent Agents - 74	Computer Vision - 85	Advanced Machine Learning - 95

### BANGOR GRAMMAR SCHOOL | 2010 – 2017

A-Levels: A – Computing, A – Mathematics, A – Physics

GCSE: A\*, 5A's, 3B's, C

## Projects

### FORECASTING AT SCALE | GROUP MASTERS PROJECT | 75%

- Time series forecasting at scale, explored many architectures to boost performance of client's solution.
- Built CI/CD pipeline (using CML) to speed up research & development through the project.

### GYM FORM CHECK | INDIVIDUAL DISSERTATION PROJECT | 74%

- Computer Vision and Time Series Analysis/Clustering to classify human movement from video.
- Created a dataset of videos and verified it was balanced and usable for purposes of the project.

### DEEP LEARNING LABS | LABS | 85%

- Data visualisation & report crafting to present results & data succinctly and accurately.
- Supervised Learning experience such as MLP & SVM's & Deep Learning using CNN's for image classification.
- Unsupervised Learning experience creating VAE to cluster the Fashion MNIST dataset.

### USED CARS REGRESSION | COURSEWORK | 100%

- Utilised PCA and decision trees to perform EDA and feature analysis.
- Explored many models to perform regression, including XGBoost, random forest, MLP's and linear regressions.
- Used k-fold Cross-Validation to measure performance of each model.

## Skills & Abilities

### LANGUAGES

- **Java** – 5+ years' experience using various technologies such as **Classical AI, Computer Vision, multi-threading**.
- **Python** – **Jupyter, NumPy, Pandas, PyTorch, scikit-learn** over several projects.
- **TypeScript** – 2+ years' experience across several front-end projects and work.

### TECHNOLOGIES

SQL                      Git                      DVC & CML                      JS React                      OpenAI Gym                      Bootstrap

### SOFT SKILLS

- **Presentations** – Developed communication skills giving presentations on a wide range of complex projects.
- **Group projects** – Both the leader of teams and produced work for the benefit of teams, requiring effective leadership for delegation of the roles and communication of work accomplished per member.

## Interests

- Being active and looking after my body is a priority for me. I have dedicated myself to goals in the gym.
- I enjoy the team-working aspects of competitive online team games, where working with new people is vital for success.