

Ben McDowell

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EDUCATION

University of Bath

Bath, UK

University of Bath - B.Sc. (Hons) Computer Science and AI (Predicted First Class Honours)

Sep. 2022 – Jul 2026

The College of Richard Collyer

Horsham, UK

Computer Science, Extended Project Qualification (EPQ), Maths, French (A*A*AA)

Sep. 2020 – Jun 2022

EXPERIENCE

Treasury Technology Intern

Jun. 2025 – Aug 2025

Jefferies

London, UK

Business Intelligence Engineer Intern

Jun. 2024 – Jun 2025

Amazon

London, UK

- Built a QuickSight dashboard that monitored costs of over \$30 million through peak period. Refreshing daily, stakeholders were able to steer volume to / from certain carriers to mitigate forecasted headwinds and remain on track with the agreed cost plan.
- Co-managed the cleanup of >100k non-compliant Delivery Areas where I created an ETL pipeline and multi-view dashboard that stored weekly snapshots of the project progress. This aided faster decisions on speed cap-hits, more accurate reporting for under-capping and consistency across the network to facilitate automation.
- Created multiple Python scripts and other modular tools that automated volume steering between all EU carriers.

Data Analyst Intern

Nov. 2022 – Jun. 2024

Play Sports Network

Bath, UK

- Produced commercial reports in Looker Studio and delivered them to company partners across 23 social channels and various platforms. Alongside analysis of social media metrics using SQL (BigQuery), Python and Excel.
- Managed SQL models in dbt, created pull requests using git when amending models (e.g. adding a new metric to a table).

PROJECTS

Personal Informatics System | Python, Flask, React, GitHub Actions

Sep. 2023 – May 2024

- Developed a full-stack mobile application that could identify how an item should be correctly disposed of upon taking a photo of it.
- Used a pre-trained classification model from OpenAI with Flask serving a REST API and React as the frontend.
- Ensured full app coverage using unit tests that ran automatically through GitHub Actions.
- As Scrum Master and Product Owner of an 8-man team, I ensured that the team adhered to an Agile Scrum methodology, facilitating collaborative sprints and CI/CD.

Email spam classifier using Naive Bayes | Python, numpy

Jan. 2023 – Mar 2023

- Harnessed a Naive Bayes approach from scratch that could classify malicious emails with >90% accuracy.
- The model was trained using numpy on a set of 900 messages with the addition of laplace smoothing to address zero probabilities.

TECHNICAL SKILLS

Languages: Python, SQL, C, Java, JavaScript, HTML/CSS

Developer Tools: AWS, Git, Docker, Google Cloud Platform, VS Code

Libraries: pandas, NumPy, Matplotlib

Certifications: AWS Certified Cloud Practitioner