

# Ben McGuirk

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## Skills

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- **Languages:** Python, C++
- **Libraries & Frameworks:** PyTorch, NumPy, Pandas, Matplotlib

## Experience

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**Retail Assistant**, Primark – Birmingham Apr 2023 - Aug 2023

- Ben worked as a retail assistant at Primark Birmingham high street, the world's largest Primark. This role was very valuable as Ben learned more about customer service and developed his communication skills in a pressured environment.

**Business Data Analyst**, Ferrier Mills – London Jun 2022 - Aug 2022

- Ben worked in this IT & data consulting start-up as a data analyst on a digital transformation engagement with a multi-national energy company. Ben focused on the company's approach to using and managing their data through a number of digital products.
- Specifically, Ben analysed data from client meetings and systems and culminated with him being part of the team that presented the data component of the digital transformation to the client. This was well received and reflected very positively on Ben and the whole team.

**Warehouse Operative**, Focus Groups – St Albans June 2021 - Aug 2021

- Ben worked as a warehouse operative at Focus Groups. This was a very insightful role as Ben learnt about supply chain fulfilment processes and the importance of technology to drive efficiency.

**Shadowing Intern**, Blizzard Institute & Luton and Dunstable Hospital – London & Hertfordshire February 2019

- Ben shadowed researchers at the Blizzard Institute as well as a gastroenterologist at The Royal London Hospital and physiotherapists at Luton and Dunstable Hospital. This was a great experience as Ben gained a well-rounded overview of the importance of scientific research and medicine.

**Volunteer Football Coach**, Special Olympics – St Albans Sept 2018 - Sept 2019

- Ben volunteered for a year as an assistant football coach, at Nicholas Breakspear school on a Saturday morning, helping coach football to children with disabilities. This was a fulfilling role in which Ben learnt the importance of different communication styles to help build relationships with both the children and the coaches.

## Projects

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- **QMUL PhD interview task:** Investigating the relationship between mammographic density and risk of breast cancer, via logistic regression and random forest.
- **MSc Summer Project:** Accelerated Exact  $k$ -medoids via Parallel Computing.
- **BSc Final Year Project:** The Role of Persulfides and ALDH2 in Myocardial Ischaemia-Reperfusion Injury.

## Education

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**PhD Machine Learning**, Queen Mary University of London Oct 2024 - Oct 2028

- Excited to start my PhD this October, focusing on machine learning for early UGI cancer diagnosis.

**MSc Computer Science**, University of Birmingham Sept 2023 - Sept 2024

- This year I am working towards a masters in computer science at the University of Birmingham. This has really sparked my interest in AI and interdisciplinary research in AI healthcare.

**BSc Biomedical Science**, University of Birmingham Sept 2020 - July 2023

- Whilst studying biomedical science at the University of Birmingham, I got to explore a number of my favorite topics in areas such as neuroscience, pharmacology and cardiorespiratory sciences.

## Additional Experience And Awards

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<b>Queen Mary University of London</b> PhD funding from Cancer Research UK	Oct 2024
<b>DeepLearningAI</b> Mathematics for Machine Learning Specialisation	Mar 2024
<b>DeepLearningAI</b> Machine Learning Specialisation	Feb 2024
<b>University of Birmingham</b> AI and Data Science conversion scholarship	Sept 2023
<b>University of Michigan</b> Python 5-course specialisation	Oct 2022