
EDUCATION

- **University College London** London, UK
Chemistry BSc: First Class Hons 2017
- **City & Islington Sixth Form College** Islington, London
A Level: Physics (A) Mathematics (A) Chemistry (A) AS Level: Further Mathematics (A)* 2011 - 2013

EXPERIENCE

- **Barclays UK Graduate Scheme** London, UK
Research Analyst - Barclays UK, ACE Sep 2018 - Feb 2019
 - Developed, tested and presented an optimised SQL methodology which enabled colleagues to perform data transformation and extraction over 90% faster and with increased scope compared to previous methods.
 - Completed deep dives on Wealth and Business Banking key clients, Relationship Managers, Account Opening and Mandate Change featuring K Means Clustering. Presented to Directors in the business with actionable recommendations taken forward to the CEO of Business Banking.
 - Introduced Python to the team for research, presented to analysts on statistical methods and best practice.*Digital Analyst - Barclaycard UK, Strategic Analytics* Mar 2018 - Aug 2018
 - Responsible for developing the Digital Analytics capability in the team.
 - Built a deterministic matching algorithm in SQL to deal with a technical error which prevented users being tracked across domains. The algorithm used IP Address, device model and timing attributes.
 - Developed a method to link web-traffic behaviour to account performance to analyse the links between application browsing behaviour and customer risk performance.
 - Built a report for Marketing colleagues to assess the affect errors had on account conversion.
 - Developed a template in Python for colleagues to visualise data in four dimensions.*Data Product Manager - Barclaycard International* Sep 2017 - Mar 2018
 - Aided in organising a landmark two-day hackathon with the Office for National Statistics. This was the first event where Barclays data was brought onto an external network for analysis.
 - Focused on developing challenges set to participants, uploading and securely hosting aggregated Barclays data, troubleshooting, and developing the winning proposal.
 - Led regular calls spanning three continents on bespoke protocols for handling Barclays data in an external environment.
 - Worked on use cases involving business matching, data visualisation and natural language processing.
- **Barclays Summer Internship** London, UK
Spend Engagement Analyst - Barclaycard UK Jun 2016 - Aug 2016
 - Undertook a deep dive into the New Customer Engagement programme, which has an annual reach of over 1 million customers. This included an analysis of key incremental metrics; email performance and customer advocacy data.
 - Led a team of 5 to design, develop and deploy a spend trigger to 16,000 disengaged customers.
 - Created a financial model to ascertain the turnover of this programme over the short to medium term.
 - Led a group 6 fellow interns to win a Hackathon against 8 other teams, focused on innovation.
- **Boston Consulting Group: Rare Consult Programme** London, UK
12 month mentoring programme organised with Rare Recruitment 2015
 - Participated in interactive case studies relating to consultants' experience.
 - One-to-one mentoring featuring case preparation and commercial awareness.

PROGRAMMING SKILLS

- **Languages:** Python, SQL, Git, Javascript. **Technologies:** Hadoop, Teradata, SAS, Heroku, p5.js, Jekyll.