

# Ben Taylor

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## PROFILE

MSc Data Science Graduate and current Technology Developer at Barclays Bank, with skills in machine learning, software engineering, and cloud computing. Eager to further an international career in software development and data science.

## EXPERIENCE

<b>Technology Developer</b>	<b>Barclays</b>	<b>Aug 2025-Present</b>
<ul style="list-style-type: none"><li>Managing, patching and securing over 100,000 virtual machines globally using VMware and vSphere.</li><li>Collaborating with cross-functional teams to maintain compliance, scalability, and efficiency of mission-critical systems.</li></ul>		
<b>Data Science Intern</b>	<b>Collaborate</b>	<b>Jun 2025-Sep 2025</b>
<ul style="list-style-type: none"><li>Developed an AI tool for open set image to video forensics in law enforcement, applying advanced computer vision and deep learning methods.</li><li>Produced experimental results and analysis to support research contributions in open-set recognition and entity matching.</li></ul>		
<b>Data Science Contract</b>	<b>Avanti West Coast</b>	<b>Nov 2024 – Feb 2025</b>
<ul style="list-style-type: none"><li>Cleaned and pre-processed complex passenger journey records from high-traffic UK rail routes.</li><li>Performed in-depth exploratory data analysis and developed multiple predictive models to identify key drivers of service delays and estimate delay probability based on several factors.</li></ul>		
<b>Technology Development Intern</b>	<b>Barclays</b>	<b>Jun 2024-Sep 2024</b>
<ul style="list-style-type: none"><li>Designed, built, and tested REST APIs using Spring Boot (Java) to integrate with internal banking systems.</li><li>Worked within an Agile development cycle, contributing to sprint planning and stand-ups.</li></ul>		

## EDUCATION

<b>Lancaster University</b>	<b>MSc Data Science</b>	<b>2024-2025</b>
Distinction		
<b>Loughborough University</b>	<b>BSc (Hons) Computer Science</b>	<b>2020-2024</b>
First Class Honours		
<b>Nanyang Technological University (Singapore)</b>		<b>2022-2023</b>
Certificate in International Studies		

## ADDITIONAL EXPERIENCE

<b>Warehouse Mail Sorter</b>	<b>Royal Mail</b>	<b>2018-2019</b>
<b>Kitchen Porter</b>	<b>Barton Grange Garden Centre</b>	<b>2018</b>
<b>National Citizenship Service</b>	<b>Community Home Funding</b>	<b>2018</b>

## KEY SKILLS

- Programming & Tools:** Python, Java, C, C++, R, Haskell, SQL, HTML, CSS, Spring Boot, VMware, Git.
- Data & Machine Learning:** Data Mining, Machine Learning, Deep Learning, Computer Vision, Distributed Systems, Cloud Computing
- Soft Skills:** Team Leadership, Communication, Problem Solving, Cross-cultural Collaboration, Enthusiasm for Learning

## **COMPLETED MODULES**

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Modules studied in first year: Computer Systems, Databases; Embedded Systems Programming, Functional Programming, Introduction to Algorithms, Introduction to Programming, Logic for Computer Science, Mathematics for Computer Science, Object Oriented Programming, Software Engineering, Web Programming

Second year: Formal Languages and Theory of Computation, Computer Graphics, Software Engineering 2, Operating Systems Networks and the Internet 1, Formal Methods, Mobile Application Development, Professional Issues in Computing, Operating Systems, Networks and the Internet 2, AI Methods, Professional Training Preparation, Team Projects

Exchange year: Chinese Language Level 1, Chinese Language Level 2, Introduction to Computational Thinking & Programming, Linear Algebra for Computing, Computer Organisation & Architecture, Data Structures & Algorithms, Materials & Energy Balances, Ethics and Moral Reasoning, Object Oriented Design & Programming, Computer Networks

Third year: Entrepreneurship and Innovation, Agent-Based Systems, Advanced Artificial Intelligence Systems, Human-Computer Interaction, Data Mining and Machine Learning, Distributed Systems, Computer Vision, Cyber Security, Final Dissertation (“Predicting Inflation with Machine Learning Methods”)

Master’s Programme: Statistical Foundations, Statistical Learning, Data Mining, Building Big Data Systems, Applied Data Mining, Data Science Fundamentals, Programming for Data Scientists, Distributed Artificial Intelligence, Final Dissertation (“Open-set Image to Video Entity Matching for Forensic Search”)

## **REFERENCES AVAILABLE ON REQUEST**