

James Hirst

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Qualifications:

- MMath, Mathematics Master's Degree, University of Cambridge, Jesus College (2021-22)
 - Pass with Distinction (79%)
 - Modules: General Relativity, Black Holes, Quantum Field Theory, Cosmology, String Theory and The Standard Model
- BA, Mathematics Degree, University of Cambridge, Jesus College (2018-2021)
 - 1st Class in third year (position: 14/222, percentage: 86%)
 - Jesus College Mathematics Award in second year (2019-20) as top performer
 - 1st Class in first year (position: 61/232, percentage: 72%)
- A-Level: 5x A*- Maths, Further Maths, Additional Further Maths, Physics, Chemistry
- AS- Level: 1x A- Economics
- IGCSE/ GCSE: 14x A*'s and an A

Employment and Experience:

- Software Engineer, Microsoft (Sep 2022-Present)
 - Working on Azure to deploy a voicemail solution for a large telco. Using Kubernetes infrastructure for maintenance and debugging, writing Python automation scripts to manage and fix CVEs, and working with Rust to improve the solution functionality.
 - Worked with Java and JavaScript to maintain a workplace messaging app sold to small businesses that integrates with users mobile numbers.
- Built a personal website using React - <https://www.jamesjhirst.com/>.
- Software Engineer at Microsoft, 8-week virtual internship (2021) writing Python scripts to improve the automation of VM deployment and management for products in the telecoms sector.
- Led a team to win **BL4S** (2016), an international competition held by CERN. Our winning proposal was an experiment to investigate Einstein's Special Theory of Relativity. Subsequently completed data collection using a particle accelerator at CERN and published a scientific paper in IOP Journal and on the CERN website.
- Worked on a machine Learning Ecology project (2022) using Detectron2 to predict the location of tree crowns to improve estimates of carbon store in forests and other locations. Resulted in a scientific paper published in a variety of journals.
- Restaurant manager with Hotelplan (2017-18) during a winter season, managing 20 staff of varying ages. Achieved 'Mountain Spirit Award' out of 500 employees for performance.
- Private tutoring for Maths as well as Explore Learning Colchester Tutor (2017).

Volunteer Work:

1. Shark Trust- machine learning and data management for an outreach project.
2. Kids Inspire- raising awareness for mental instabilities and disabilities in children.
3. Chelmsford Boys Club- painting and renovating youth rooms.
4. Youth Enquiry Centre Colchester- gardening and maintenance of the centre.

Personal Qualifications:

Vice School Captain
BPO Round 1- Gold Award (Top 50 Nationally)
PADI Open Water Certified

Cambridge University Ski Freestyle Captain
Wado-Ryu Karate- 2nd Dan Black belt
National Citizenship Service Award