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| **James Hirst** | Address 37 Twyford House, London,  N5 1AG  Email [hirst.jj@googlemail.com](mailto:hirst.jj@googlemail.com)  Phone 07504 456577 |

**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 for being 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 writing Python scripts to improve the automation of VM deployment and management for products in the telecoms sector.
* Lead a team to win the international [BL4S](https://beamlineforschools.cern/) competition with a project designed 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.
* Machine Learning Ecology project 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 during a winter season, managing 20 staff of varying ages. Achieved ‘Mountain Spirit Award’ in an area of 500 employees for performance.
* Private tutoring for Maths as well as Explore Learning Colchester Tutor.

**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:**

Cambridge University Ski Freestyle Captain

Wado-Ryu Karate- 2nd Dan Black belt

National Citizenship Service Award

Vice School Captain

BPO Round 1- Gold Award (Top 50 Nationally)

PADI Open Water Certified