JOSHUA ACTON

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EDUCATION

University of Bristol — **Bristol, UK**
BSc (Hons) Mathematics and Computer Science — *September 2021 – July 2024*
- Grade (Expected): First Class Honours
- Honours: Awarded the Bristol PLUS award, fewer than 5% of students achieve this each year
- Courses: Real Analysis, Metric Spaces, Linear Algebra I, Algebra I, Probability I & II, Statistics I & II, Algorithms I & II, Data-Driven Computer Science, Imperative & Functional Programming, Object-Oriented Programming, Programming Languages & Computation
- Additional: Self-teaching courses in ODEs, PDEs, multivariable and stochastic calculus

The King's School Chester — **Chester, UK**
5 A-Levels, 10 GCSE/IGCSEs — *September 2014 – July 2021*
- A-Levels: Mathematics (A*), Further Mathematics (A), Physics (A*), Computer Science (A*)
- A-Level Extended Project "Will machine superintelligence benefit humanity?" (100%, A*)
- GCSEs/IGCSEs: 6 grade 9, 3 grade 8, 1 grade 6, including Mathematics and English Language
- UKMT Senior Mathematics Challenge (Gold), NPLQ Generation 9 (qualified pool lifeguard and first aider)

WORK EXPERIENCE

Goldman Sachs — **City of London, UK**
Summer Analyst — *June – September 2023*
- Accepted an offer to join the Market Risk team as a 2023 Summer Analyst

University of Bristol — **Bristol, UK**
Student Helper — *January 2023 – Present*
- Representing the School of Computer Science at open days and panel sessions for offer-holders and applicants

University of Bristol Banking & Investment Society — **Bristol, UK**
Quantitative Analyst — *October 2022 – Present*
- Learning about the quantitative finance industry through seminars and developing a cryptocurrency market-making bot

Flintshire County Council — **Flint, UK**
Data Entry Clerk — *June – September 2022*
- Input sensitive information into a custom database requiring high attention to detail to recognise anomalies
- Processed over 400 forms resulting in the team's summer workload being completed one month early

Optiver — **Remote**
Spring Insight Participant — *April 2022*
- Received training in financial markets, option theory, market making, and trading system design
- Placed 3rd in a team competition to develop and execute a delta-neutral cross-exchange arbitrage strategy

University of Bristol — **Bristol, UK**
Telephone Fundraiser — *March – April 2022*
- Established and maintained strong relationships with over 400 Alumni
- Raised over £2000 to support a variety of scholarships

Susquehanna International Group — **Remote**
Spring Insight Participant — *March 2022*
- Developed my understanding of probability, statistics, and game theory in financial markets through workshops, talks and games with SIG team members

Medicines Discovery Catapult — **Chester, UK**
Machine Learning Research Intern — *July – October 2020*
- Implemented a novel machine-learning approach in Python to translate images of organic chemical compounds in medical research papers into standardised 'SMILES' strings

TECHNICAL PROJECTS
- Personal portfolio webpage written in HTML, CSS, JavaScript

LEADERSHIP EXPERIENCE

University of Bristol Cycling Club   **Bristol, UK**
Vice-Captain for Road Cycling   *September 2022 – Present*
- Co-ordinated design and procurement of custom club kit for the 2023 season
- Organised a week-long summer trip to France for 30+ club members, managing accommodation and transport

The King's School Chester Rowing Club   **Chester, UK**
Vice-Captain of Boats   *September 2020 – July 2021*
- Rowed in the school 1st VIII at a national level including Henley Royal Regatta and National School's Regatta
- Represented the views of athletes within the club and volunteer coached younger athletes in school holidays

SKILLS & INTERESTS

Linguistics	English (native), self-studying Dutch & German
Programming	Python, R, C++, Java, C, Haskell, HTML, CSS, JavaScript, Git
Certifications	Bloomberg Market Concepts 91.4%, Python and Statistics for Financial Analysis (Coursera)
Interests	Black swan events, existential risk, military history, chess, poker, geopolitics
Sports	Road cycling, distance running, powerlifting, Formula One