

## EDUCATION

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### University College London (UCL)

Sep 2021 - Jul 2025

- M.Eng. Computer Science
- Final-Year Project: 'Performance Analysis of Stock Market Commentary Using General vs. Fine-Tuned LLMs'
- Relevant modules: Engineering Mathematics in Finance, Stochastic Calculus, Data Mining and Analysis, Algorithms, Compilers, Computability and Complexity Theory

### Herschel Grammar School

Sep 2014 - Jul 2021

- A-levels: Mathematics (A\*), Computer Science (A\*), History (A), EPQ (A)
- GCSEs: Achieved all 9s – 7s with Mathematics (8) and English Language (8)

## WORK AND INSIGHT EXPERIENCES

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### Citi | *Technology Summer Analyst* |

June 2024 – Aug 2024

- Contributed to the enhancement of Citi's Smart Order Router platform, improving trade execution accuracy and ensuring more reliable trade reporting across various financial markets, leading to more efficient client services.
- Gained exposure to algorithmic trading workflows by working on system-level improvements for trade execution and reporting, ensuring greater efficiency in trade matching and data accuracy.
- Led efforts to improve test coverage and system reliability for a high-performance trading platform by designing and executing new unit and end-to-end tests, reducing the risk of production issues.
- Resolved trade reporting discrepancies by implementing fixes and developing comprehensive testing frameworks, ensuring accurate trade execution dates and enhancing overall trading reliability.
- Optimised automated testing processes for a real-time trading system by eliminating inefficiencies, improving testing accuracy, and reducing potential risks in a high-pressure, fast-paced environment.
- Developed a holistic understanding of trade execution processes through hands-on contributions to technology-driven solutions, supporting the firm's overall strategy in delivering efficient and accurate market services.

### BAE Systems | *Software Engineering Intern* |

June 2023 – Sep 2023

- Worked extensively with C# to develop and refine algorithms for one of the company's leading radar products.
- Expanded the software's capabilities by introducing new functionalities, thereby broadening the radar's application scope and performance.
- Continually liaised with software testing teams to ensure the deployed fixes met BAE Systems' quality and operational standards.

### The STEM Academy | *Founder & Director* |

Feb 2023 – Present

- Spearheaded the assembly of an impressive tutor network, attracting top talents in STEM fields to deliver high-calibre, interactive, and engaging sessions whilst fostering an enriching learning environment for students.
- Managed financials, operations, and logistics, ensuring The STEM Academy's sustainability and scalability.

### Google | *Technology Summer Insights* |

July 2022

- Gained an insight into the operations of world-leading technology institutions and the importance of inclusive work environments.

### Lloyd's Bank | *Virtual Work Experience* |

June 2022

- Acquired an understanding of the future of commercial banking and the technology-heavy approach willing to be adopted.
- Led a winning Hackathon team of six members tasked with creating a banking application promoting accessibility and inclusivity.

## LEADERSHIP POSITIONS & EXTRA-CURRICULARS

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### Computer Science Society

- Founded the Computer Science Society at my secondary school and grew the society by organising forums to discuss emerging research whilst also prompting the sharing of knowledge between members.
- The program now boasts over 70 students who benefit or have benefitted by receiving offers from top universities.

### Taekwondo

- Obtained gold medals in regional tournaments and competed in trials for the Junior European Championships.

### Football

- Captain of my School team from the ages of 13 – 18 and Vice-Captain of my Sunday League team 14-16.
- Coached after-school football clubs at schools in the local community.

## PROGRAMMING PROJECTS

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- **Portfolio Optimiser:** Applying Modern Portfolio Theory to calculate optimal portfolio weights and plot the efficient frontier.
- **Stock Predictor:** A program designed to forecast the value of any stock and plot its results.
- **Option Pricing Model:** Calculating theoretical option prices with Black-Scholes & Binomial models.