

# Edward Williams

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## EDUCATION

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**UNIVERSITY OF CAMBRIDGE, St. Catharine's College, Part III Mathematics MAsT** Oct. 2022 - Jun. 2023  
Grade: **Distinction (78)**

**Key Modules:** String Theory, Advanced Quantum Field Theory, Supersymmetry, General Relativity, Black Holes

**IMPERIAL COLLEGE LONDON, MEng Mathematics and Computer Science** Sept. 2018 - Jun. 2022

Overall grade: First Class Honours (**83.87%**) - ranked on the Dean's List (top 10% of year) in Years 2, 3, and 4.

Achieved highest mark in year in Year 3 (**89.75%**)

**Key Modules (%)**: Machine Learning (97), Robotics (97), Compilers (96), Software Engineering (95), Type Systems (94)  
General Relativity (100), Special Relativity and Electrodynamics (98), Algebra III (84), Statistics (82)

**WESTMINSTER SCHOOL** Aug. 2013 - Jun. 2018

A Level Results: 4 A\*s in Mathematics, Further Mathematics, Physics, and Economics. GCSE Results: 12 A\*s

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## EXPERIENCE

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**Software Engineer, Jump Trading LLC** September 2023 - Present

- Working in core data engineering team, pipelining exchange reference data and analysing research datasets

**CTO / Lead Software Engineer, Curv Ltd.** February 2022 - Present

- CTO of start-up developing wearables for posture tracking. Won Kickstart Global Incubator and Accelerator programs

**Software Engineer Intern, Jump Trading LLC** July 2022 - September 2022

- Completed a 10 week internship developing pipelines to onboard market reference data from new financial exchanges and sports betting markets. Worked closely with several trading and engineering teams. Offered full-time role

**Software Engineer Intern, Bloomberg L.P.** June 2021 - September 2021

- Completed a 4 month placement in the FX & Commodity Derivatives Pricing team in Financial Analytics developing a new Python API for options pricing, as well as picking up various other tickets. Offered full-time role

**Undergraduate Researcher (UROP), Imperial College London, Dept. of Computing** July 2020 - August 2020

- Awarded competitive EPSRC Bursary for research project investigating generation of counterfactual explanations and adversarial examples for neural networks and Bayesian classifiers, supervised by Professor Francesca Toni

**Undergraduate Researcher (UROP), Imperial College London, Dept. of Mathematics** June 2019 - August 2019

- Group research project entitled "Fourier Transforms in Algebraic Settings", supervised by Dr. Travis Schedler. Worked closely in team of three, studying advanced areas of pure maths such as representation theory and functional analysis
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## NOTABLE PROJECTS

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**Learning to Plan from Curiosity - Imperial College London | PyTorch, MuJoCo** October 2022 - June 2022

MEng thesis supervised by Dr. Edward Johns with Imperial's *Robot Learning Lab*. Developed a novel framework for RL agents to learn goal-conditioned policies from autonomous intrinsically motivated exploration. Achieved a mark of 82%

**DeFi Liquidation Bot - Imperial College London | Go, Solidity** October 2020 - January 2021

Worked in team of six to build a highly concurrent, optimised bot, written in Go, to liquidate unhealthy loans on lending protocols across the Ethereum blockchain. Overall mark of 87% and won a CPP Prize, given to top five 3<sup>rd</sup> year group projects

**WACC Compiler - Imperial College London | ANTLR, Scala, sbt** January 2020 - March 2020

Led and coordinated a team of three, designing and implementing a compiler from scratch for the WACC programming language. Written predominantly in Scala while using ANTLR for the front-end, achieved an overall mark of 89%

**Pintos Operating System - Imperial College London | C, QEMU** January 2020 - March 2020

Worked in a team of four to implement functionalities of the Pintos operating system, including priority scheduling, multilevel feedback queue scheduling and system call functionality. Written in C and gained an overall mark of 88%

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## SPORTS/OTHER INTERESTS

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**Football** | Two-time Westminster School House Football Winner, Old Westminsters FC 1<sup>st</sup> XI 2016 - 2018, 2021 - Present  
Helped raise over £17,000 for charity playing in a 24-hour football marathon 2018

**Squash** | Westminster School Squash 1<sup>st</sup> Team Captain, St. Catharine's College 1<sup>st</sup> Seed 2016 - 2018, 2022/23

**Pool** | Two-time Winner of Pool Cup, Westminster School, Cambridge University Pool Team 2016 - 2018, 2022/23

**Languages:** Python, Rust, Java, Haskell, Scala, Go, C/C++, Dart, HTML/CSS, and JavaScript

**Interests:** Keen linguist, learning several languages, such as Brazilian Portuguese and Esperanto, 2600+ day Duolingo streak

**Other technical skills:** Git, Linux, LaTeX, PyTorch, NumPy, Pandas, Django, ANTLR, Vim/Emacs, (C)Make, and Office