

Adam Kassam

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Education

Imperial College London

MEng Mathematics and Computer Science

Sep 2023 - June 2027 (Expected)

South Kensington, London, UK

- **Grade:** First Class (Years 1 & 2)
- **Notable modules:** Numerical Analysis (86.27%); Software Engineering Design (78.44%), Laboratory 2 (PintOS, DevOps, WACC) (86.22%); Computing Practical 1 (Haskell, Kotlin, Java, C) (85.78%); Graphs & Algorithms (84.00%).

Technical Skills

Languages: Java, Kotlin, Python, C, Forth, Scala, Julia.

Technologies: Linux, Java Spring Boot, Spring Cloud Contract, Structurizr DSL, Jetpack Compose, Docker, Git.

Concepts: CI/CD, Machine Learning, Microservice Architecture, Embedded Systems & Microcontrollers.

Experience

T. Rowe Price

July-September 2025

Software Engineering Intern – Global MultiAsset Technology

City of London, UK

- Worked on a full-stack web application (MACAW 2.0) to assist portfolio managers and analysts.
- Merged two of my team's microservices into one mono-repository, reconfiguring the CI/CD pipelines and deployment strategies involved as required.
- Developed a fully-fledged, producer-driven **contract testing** suite for one of our applications' services.
- Rewrote integration tests for several consumers of that service, utilising the contract 'stub runner' to make these tests more robust and limit the impact of breaking changes.
- Enabled my team, with my testing and code quality improvements, to take steps towards the 'Pilot's License', a company initiative allowing continuous delivery of applications.

MathSciTech

July-August 2024

Summer Research Experience – Embedded Computing

Finchley, London, UK

- Developed a high-level language kernel based on a minimal subset of the x86 instruction set to extend functionality to DOS chips' graphics mode, utilising stack programming.
- My [summary report](#) on the Eco-Computing motivation behind '**Computing from the Ground Up**' (CGU).
- Experimented with **electronics, circuits, microcontrollers**, and **sensors**, using a proprietary language server to integrate stack programming into microcontroller (Arduino Nano) development.

ISAM

July 2022

Trading Work Experience

City of London, UK

- Traded a \$500k portfolio in four markets over the four-day programme, and presented my trades at the end.
- Acquired a comprehensive understanding of systematic hedge funds, where I met with various other departments in the company (Finance, Systematic Research, Infrastructure, etc.).

Projects

WACC Compiler | CI/CD, Scala, x86-64 Assembly, Parsley

Jan-March 2025

- Engineered a fully functional compiler for a C-like language from scratch, in a team of four.
- Developed a robust frontend to parse and type check programs, providing descriptive reporting of syntax and semantic errors. Utilised the Parsley parser-combinator library for Scala.
- Generated x86-64 assembly code in the backend, working with a custom IR and utilising direct file I/O.

PintOS | C, GDB, Valgrind

Oct-Nov 2024

- Worked with three others to add support for multi-level feedback queue thread scheduling and user programs to a barebones OS kernel, written in C.
- Deepened my understanding of low-level programming and useful debugging tools such as Valgrind and GDB.

Extracurriculars

DoCSoc – Academic Events Coordinator

August 2025 - July 2026 (Current)

- Organised regular deep dives and other academic events (Internships 101, UROPs 101, etc.) for the 2000-strong membership of Imperial's Computing student society.
- Selected as one of the inaugural team leads of 'Hacker Education', supporting first-time hackers at **IC Hack '26**.