

VAIBHAV KRISHNAKUMAR

vaibhavkrishnakumar@gmail.com || (+44) 7745664581 || <https://uk.linkedin.com/in/vaibhavkrishnakumar>

Education

◇ MEng Mathematics and Computer Science, Imperial College London

October 2014 to June 2018 (*Expected First Class Honours*)

- Undergraduate Teaching Assistant (2016-18)
- Vice-President, Debating Society (2016-17)

◇ Ibstock Place School, London

January 2009 to July 2014

A-Levels

3 A*s, 1 A and a Merit in the Advanced Extension Award for Mathematics

GCSEs

8 A*s, 2 As including Mathematics, Additional Mathematics and Triple Award Sciences

- Maurice Finnan Award for Services to the School and the Mathematics Subject Prize (2014)
- Prefect, Deputy Head of House and Academic Scholar (2013-14)

Experience

◇ Application Developer, Morgan Stanley (Summer 2017)

- Designed and developed a full-stack web application to perform data validation using a rule based approach
- Worked as part of the Treasury Technology team to help with regulatory reporting on Liquidity Risk
- Experience with **Enterprise Java** using a **semi-agile and TDD** based approach
- Worked with user feedback and mock-ups to design and implement an **AngularJS** client-side view

◇ Spring Week - Group Technology, Deutsche Bank (April 2016)

- Shadowed members of the Risk and Analytical Market Data team, focusing on Big Data and cloud computing
- Worked in a pair-programming setup to debug a risk assessment application used by traders
- Helped devise some simple programming exercises to be used in an interview situation

◇ Charity Insights Intern, Asha for Education (July 2015)

- Produced a report for an international charity tackling skills development challenges in India
- Summarised a collection of articles and journals discussing the problems facing India in the next 25 years

Projects and Skills

◇ Pintos

- Implemented the core parts of a simple Operating System in **C**
- Handled issues such as concurrency, scheduling of user programs (priority inversion) and memory management
- Led the code review sessions to explain design decisions and implementation choices

◇ ViSiBLE

- Designed and built a development tool that allows programmers to symbolically execute Java programs
- Experience with **Java** for server-side development, especially integrating legacy third party code

◇ Research Projects

- Produced multiple reports in **L^AT_EX** exploring the Mandelbrot Set, the Schrödinger Equation and topics in Computational Fluid Dynamics.
- Modelled wave dispersion, quantum barrier problems and linear advection in **MATLAB** using numerical methods

◇ Experience with **NodeJS**, **C++** and **Python**, in addition to **Git**, **IntelliJ** and the **Microsoft Office** suite

◇ Debating

- Represented Imperial at numerous competitions, including as a judge at the World Universities Championship
- Represented my school at a world schools' competition in Slovenia (SF 2014, QF 2013)

◇ Natively fluent in English and Hindi, proficient in Tamil and Spanish conversation