VAIBHAV **KRISHNAKUMAR**

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Education

◇ **Imperial College London**
October 2014 to July 2018
First Class Honours, MEng Mathematics and Computer Science

  ○ Undergraduate Teaching Assistant (2016-18)
  ○ Debating Society Committee (2015-17)
  ○ Hall Senior and Planning Committee (2014-16)

◇ **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

◇ **Technology Analyst, Morgan Stanley** (August 2018 - Present)

  ○ Completed the Technology Analyst Program, a 16 week training course covering enterprise technology fundamentals
  ○ Joined the Treasury Technology team, working on Liquidity Risk projects deliverable to the PRA
  ○ Experience with _Enterprise Java_ using _Agile_ methodologies with _BDD_ and _TDD_

◇ **Application Developer, Morgan Stanley** (June 2017 - September 2017)

  ○ Industrial Placement with the Treasury team working on Liquidity Risk regulatory reporting
  ○ Designed and developed a full-stack web application to perform data validation using a rule-based approach
  ○ Worked closely with end users to design and implement the client-side view (_AngularJS_)

◇ **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

◇ **Java Modelling Tools (JMT)**

  ○ Designed and implemented five load balancing policies in JMT as part of my final year project
  ○ Demonstrated correctness through formal verification using _Markov Chains_ where possible
  ○ Performed multiple experiments to compare effectiveness of various policies under different scenarios
  ○ Produced my _Master's thesis_ with the implementation details and results from the experiments

◇ **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 $\LaTeX$ 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 additon 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