VAIBHAV **KRISHNAKUMAR**

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Experience

Technology Associate, Morgan Stanley (Aug 2018 - Present)

- Treasury Technology - design, develop, deploy and maintain applications that perform liquidity risk calculations and generate regulatory reports that are submitted to the PRA
- Technology Learning - successfully completed, and subsequently ran sessions in, a blended learning programme that teaches **Angular** fundamentals to server-side developers
- Campus Recruitment - screened CVs and conducted first round interviews for next year's graduate intake
- Experience with **Enterprise Java** and **Database** technologies, using **Agile** methodologies in a global team

Charity Insights, Asha for Education (Jul 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 the country over the next 25 years

Education

- *Imperial College London* (Oct 2014 - Jul 2018)
  First Class Honours, MEng Mathematics and Computer Science

  - Engineering Dean's List (2018)
  - Undergraduate Teaching Assistant (2016-18)
  - Debating Society Committee (2015-17)
  - Hall Senior and Planning Committee (2014-16)

- *Ibstock Place School, London* (Jan 2009 - Jul 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)

- *Vibgyor High School, Mumbai* (Apr 2004 - Dec 2008)

Projects and Skills

- *Java Modelling Tools (JMT)*

  - Enhanced JMT, an open-source application, by designing and implementing five **load balancing** policies in **Java**
  - Demonstrated correctness through formal verification using **Markov Chains** where possible
  - Performed multiple experiments to compare the effectiveness of queueing policies under different scenarios
  - Produced my **Master's thesis** with the implementation details and results from the experiments

- *Research Projects*

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

- *VISiBLE*

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

Basic experience using **Python, Scala**, and **C++**
Comfortable with **Git, IntelliJ, Vi(m)**, and the **Linux** command line

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Debating

- Attended numerous competitions over five years, both as a participant and a judge
- Represented my university as a judge at the World Universities Debating Championships (2016)
- Represented my school at a world schools' competition in Slovenia (SF 2014, QF 2013)

Native fluency in English and Hindi, proficient in Tamil and Spanish conversation