

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

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 effectiveness of queueing 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**

◇ Basic experience in **Python, Scala, C++** and **NodeJS**

◇ Comfortable using **Git, IntelliJ, Vi(m)** and the **Linux** command line

◇ *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

◇ *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)

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