

# SHASHWAT PRITESH DALAL

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## EDUCATION:

*IMPERIAL COLLEGE LONDON, London, United Kingdom.*

**First out of four year reading MEng in Computing**

- Ended first year with a First.

*SAINT MAUR INTERNATIONAL SCHOOL, Yokohama, Japan.*

**High School Diploma, and IB Diploma, 2016**

- Graduated with highest GPA and IB score in class
- IB Total of 42: HL Physics (7), HL Chemistry (7), HL Economics (7), HL Mathematics (6), SL Literature and Performance (7), SL Japanese B (6)
- AP Computer Science (5), AP Microeconomics (5)

## WORK EXPERIENCE:

*ROBOTICS INTENSHP AT ABB Tokyo, 2015 (2 months)*

Using rapid and RobotStudio, implemented and tested solutions for several Japanese firms using both four-axis and six-axes robots. Immersed in Japanese cooperate culture.

*PRODUCT DEVELOPMENT INTERNSHIP AT TOKYO ACADEMICS*

**Tokyo, 2016 (1.5 months)**

Individually pioneered a 'Minecraft with Python' and JavaScript course at a tutoring firm. Used Java/Python libraries to develop a two week curriculum. Later under supervision of a McKinsey alumni, taught and evaluated the curriculum.

## OTHER TECHNICAL EXPERIENCE:

*ARM 11 – ASSEMBLER AND EMULATOR (EXTENSION PROJECT USING C OPENCV LIBRARY)*

In a team of four, developed an emulator and assembler, written in C, for a subset of ARM11 instructions which eventually ran on a Raspberry Pi. Being the group leader, I was in charge of code reviews, version control strategy, and modularization of the code base. Our extension, was an arcade Tron game with n AI player using a minimax approach. The graphics were done using OpenGL libraries.

*IC HACKATHON: MOVIE RECOMMENDATION APP. January, 2017*

In a team of four, wrote an app that using previously liked movies on Facebook, recommended movies. The app was written for IOS using ReactNative, and the webserver which ran a sparse de-noising auto-encoder was written using Django. Personally worked on backend communication between various movie databases and the native app. The hack won the award of "Best Fresher's Hack" (<https://devpost.com/software/movie-matcher>)

*IMPLEMENTED A CAUCHY DISTRIBUTION REGRESSION CALCULATOR IN JAVA.* **December, 2015**

Wrote an estimation based regression calculator for my IB Physics Internal Investigation for modeling resonance curves.

*CHIEF TECHNOLOGY OFFICER OF SAINT MAUR DEVELOPMENT COMMUNITY.* **Sophomore, Junior Year High School**

Developed games using Java and Javascript and uploaded them onto a website that was locally hosted. Was in charge of programming the games and ensuring continuity and quality control for all code on the website which was done using git and imposing a style guide respectively. I was also in charge of marketing and demographic behavior.

**LEADERSHIP:**

*CROSS COUNTRY CAPTAIN,*  
**Senior Year High School**

Captained a varsity and junior varsity male cross country team of 40 runners. Lead team to win an international varsity two day cross country tournament.

*EXECUTIVE VICE-PRESIDENT OF STUDENT COUNCIL,*  
**Sophomore and Junior Year High School**

Coordinated logistics for all social events for 200 students. Pioneered and planned an interschool sports day where 700 students participated. Liaised with school administrators as well as with board members of the association of international schools in the Kanto Plain.

**ADDITIONAL SKILL-SET:**

*APTECH ADVANCE JAVA Ahmedabad, India*  
**June/July 2014**

Learnt how to implement back-end processes using JSP, JavaBeans, and MySQL. Passed curriculum with a distinction.

*INTENSIVE SIX-WEEK HASKEL COURSE, London, United Kingdom*  
**October/November, 2016**

Learnt about designs of functional languages. Implemented a symbolic calculus calculator, and decision tree in Haskell.

*LANGUAGES (PROGRAMMING) In Order of Fluency*

*Java, Haskell, C, Python, SQL, Mathematica, Intel 64, JQuery*

*LANGUAGES (WRITTEN/SPOKEN)*

English (*Spoken and Written Fluent*), Gujarati (*Spoken fluent*), Hindi (*Spoken Intermediate*), Japanese (*Spoken Intermediate, Written Beginner*), Spanish (*Spoken Intermediate/ Beginner, Written Beginner*)