

# Dhivyarupini Ravindran

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## Education:

### Imperial College London (2018 – Present):

2<sup>nd</sup> year student studying towards a Bachelor's degree in Computing (Artificial Intelligence)

Modules include: Graphs & Algorithms, Operating Systems, Compilers, Networks, Models of Computations, Logic, Computational Techniques

### A-Level Examinations (2016 - 2018):

4A\*s: Economics, Physics, Mathematics, Further Mathematics, STEP I Examination: Grade 2 (68)

### IGCSE Examinations (2014 - 2016):

9A\*s: Additional Mathematics, Mathematics, History, Malay, Biology, Chemistry, Physics, English Language, English Literature

2As: Business and Economics, Fine Art

## Awards & Honours:

- Awarded a 40% academic scholarship in Year 10 at the **Prince of Wales Island International School**
- Offered a 70% academic scholarship to study A levels at **Prince of Wales Island International School** – not accepted

## Leadership Experiences:

**2017 – 2018:** President of the Model United Nations Club

**2017:** Co-Director of the 1st Maths Challenge in Kolej Yayasan UEM (So You Think You Can Math)

**2017:** Event Manager for KY Kaigi (an internal KYUEM conference with 4 councils)

## Work Experience/Voluntary Work:

**2018 – 2019:** Executive at Branding and Strategy Office of Gencorporate

**2017 – 2019:** Taught children of age groups 7 – 10 and 14 – 17 in Maths, Science and English at the Lifebridge Refugee School

**2017:** Internship at Sun Engineering in Penang, Malaysia

**2016 – 2018:** Peer tutor for Maths and Further Maths A-level Examinations within the college

## Projects:

- **Arm11 Assembler, Emulator and crossyRoad game on Raspberry Pi** **C, Git**
  - Part of a 4-person team that worked together to develop an assembler and emulator in C for a subset of the ARM11 architecture
  - Developed a basic abstraction of the crossyRoad game in C which was adapted to the gpio of a Raspberry Pi
- **MyFridge Web Platform** **CSS3, PHP, HTML5, Adobe Illustrator**
  - Part of a 5-person team in ICHACK 2019 that developed a web platform to share food that are going out of date
  - This application was aimed at any group of people living in a shared space
- **Implementing support for Pintos** **C, Git**
  - Part of a 4-person team that implemented scheduling, user programs and added virtual memory implementation for an operating system framework for the 80x86 architecture
- **Group Public Engagement Website** **HTML5, CSS3, Bootstrap, JavaScript, Git**
  - Developed a static website to showcase the research of a current Imperial College London PhD student studying neural networks
- **WACC Compiler** **Java, ANTLR, Python, Ruby, Git**
  - Part of a 4-person team that built the front-end and back-end of a compiler from the WACC language to ARM assembly Code
  - Individually performed optimisations on the compiler such as Control Flow Analysis and Array Bounds Checking.
- **COVID Volunteer Web Application** **CSS, JavaScript, React, Node.js, Express.js, Figma, Heroku, Git**
  - Built a web application that connects volunteers to at risk groups to help carry out tasks that involve leaving the house (grocery shopping)
  - Made the prototype with Figma. For the tech stack, we used React and CSS and Express.js for the backend and deployed to Heroku.

## Languages and Skills:

**Languages:** **Fluent:** English, Malay **Intermediate:** Tamil **Exposure:** Spanish

**Technical Skills:** **Proficient:** Java, C, Haskell, Prolog, JavaScript **Intermediate:** C++, HTML5, CSS3, Python **Exposure:** Ruby

## Community Service/Miscellaneous:

- Raised RM13,000 for UNICEF through my Leo Club's first annual Scare-to-Care Halloween fundraiser and RM8,000 for Lifebridge Refugee School through the same event the subsequent year
- Regularly volunteers for community events and raised money for the Zomi Refugee Home through a charity art drive in college