

DHIVYA RAVINDRAN

+447493556661 | dr3818@ic.ac.uk | [linkedin/in/dhivya-ravindran](https://www.linkedin.com/in/dhivya-ravindran) | github.com/dhivya3818

EDUCATION

Imperial College London

On track for a 1:1

MEng Computing (Artificial Intelligence)

Oct. 2018 – July 2022

Kolej Yayasan UEM, Malaysia

*4A*s: Mathematics, Further Mathematics, Physics, Economics*

A Levels

July 2016 – June 2018

WORK EXPERIENCE

Tech Development Team Lead | AGORAx

July 2020 – Present

- Developed first iteration of the media publishing platform using Wordpress
- Managing a team researching and developing the second iteration of the platform as a full stack Cross-Platform Application using a Flutter/Dart tech stack.

Technology Intern | SK Sunbelt Solutions and Supply

July 2020 – Sep 2020

- Created script to automate report generation for data analysis.
- Developed programs written in Python to forecast demand of items, predict lead time, and used these models to flag high priority or high delay items for the logistics company.
- Set up an Item Quality Control database using Microsoft Excel and VBA.

Executive, Branding and Strategy Office | GenCorporate

Oct 2018 – May 2019

- Advised representatives of companies on the organisation of recruitment events for incoming Malaysian graduates.
- Produced visuals and marketing materials to advertise recruitment events using Adobe Illustrator, and maintained the organisation website.

PROJECTS

COVID-19 Volunteer Web Application | HTML, CSS, React, Node.js, MongoDB, Heroku

- Developed a full stack Web Application with the *MERN* stack and deployed on *Heroku*, for connecting volunteers to at risk groups
- Designed in an iterative process using regularly collected feedback from users.

Optimising WACC Compiler | Java, ANTLR, Python, Ruby

- Built full WACC compiler including parsing, semantic analysis, code generation, and optimisation.
- Implemented continuous integration with *Docker*, using *Python* and *Ruby* to automate testing.
- Optimised the compiler by implementing Control Flow Analysis and Array Bounds Checking, extended the language to support type inference and classes.

Implementing support for Pintos Operating System | C

- Implemented scheduling, user programs and added virtual memory implementation for an operating system framework of the x86 architecture.

ARM Project | C, ARM

- Developed an assembler and emulator for the ARMv6 instruction set.
- Developed a basic abstraction of the *crossyRoad* game which was adapted to the gpio of a Raspberry Pi.

TECHNICAL SKILLS

Proficient: Java, Python, C/C++, JavaScript, HTML/CSS, Haskell

Intermediate: Prolog, SQL(Postgres) **Exposure:** Kotlin, Ruby, Scala

VOLUNTEERING

Teacher | LifeBridge Refugee Home

July 2018 – Present

- Formulated a group of university students to teach children of age groups 7-11 and 14-17 Science, Maths and English throughout the summers of 2018 and 2019.
- Developed relationships and continued to support this community through organising initiatives to support the students and their families during the COVID-19 pandemic.