

RISHIL PATEL

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EXPERIENCE & PROJECTS

Research and Software Intern

inCase

July 2020 – August 2020

UK, London

- Researched a way to advance the current questionnaire system from a static to a dynamic one.
- Developed from scratch a domain-specific language (mini-language) to be used to communicate data to multiple platforms in order to be interpreted, using **JavaScript**.
- Built a framework for an interpreter in which inCase will integrate into their various systems and develop upon in **Java**.

Software Development Intern

inCase

August 2019 – October 2019

UK, Manchester

- Learnt about the front and back end of software and had a chance to do some refactoring on the middleware for the company.
- Developed a dashboard application to display logistics of the company, where I developed my skills in **Swift**.
- Sat in on multiple conferences to learn how the business interacts with potential customers and investors.
- Had experience with backend engineering, where I developed my fluency in **Java**.

Language Processor Project : C to MIPS Compiler

Imperial College London

March 2020 – April 2020

UK, London

- Developed my **object-oriented programming skills** in **C++** and management of a large project with many files.
- Required precise **time management** and critical decision taking in order to complete the project in time.
- Made use of previously unseen software and languages which I had to learn in a very short amount of time.

End of Year Project : FPGA

Imperial College London

May 2019 – June 2019

UK, London

- Built a real time image processing video game on a PYNQ board
- Strengthened my aptitude in **Python** and **HLS** code.
- Finished with a fully functional user interactive video game.

Martial Arts Instructor

Kung Fu Schools

June 2015 – August 2018

UK, Croydon

- Taught students off all ages from 4 years old to 80.
- Developed a teaching plan and exercise routine for lessons to effectively progress the skills of students of all abilities.
- Helped me develop my **communication skills** and ability to teach people skills from scratch

EDUCATION

MEng Electronic and Information Engineering

Imperial College London

October 2019 – Present

Current Grade 2:1

- Year 2: 2:1 (66% average)
- Year 1: 2:1 (60% average)

Relevant Modules:

Software Engineering, Machine Learning, Deep Learning, Data Structures and Complexity, Mathematics, Computer Vision, Language Processors, Object-Oriented Programming

A-Level and High School

Graveney School

September 2014 – July 2018

A-Level:

Mathematics A*, Chemistry A, Physics A

GCSE:

5 A*'s, 6 A's

VOLUNTEERING

- Publicity Officer at Imperial College Electrical Engineering Society where I am in charge of the social media presence, events organisation and collaboration with the industry team of our society with more than 1100 members.
- Ran a fundraising campaign as a small group organising and attending events to raise money for the mental health charity Mind.
- Sports leader, volunteered at Kids' City after school club to create and organise fun sport activities.

PROGRAMMING

- C++, C
- Java, Javascript
- Python
- Git, SQL, MATLAB
- Verilog HDL, MIPS and ARM Assembly

LANGUAGES

- English