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## EDUCATION

*Imperial College London*

September 2017 - Present

- BEng (Hons) Computing
- Achieved a first class in first year

*Hills Road Sixth Form College*

September 2015 - June 2017

- A-Levels
- Maths (A\*) Chemistry (A\*) Further Maths (A) Physics (A) EPQ (A\*)

## WORK EXPERIENCE

*Author on planckti.me (Volunteer)*

December 2017 - Present

- Active contributor of articles that aim to provide readers with a clear understanding of concepts via concrete examples and a hands-on approach.

*Maths and Sciences Tutor*

July 2016 - August 2016

- Tutored at KS3 level, requiring key communication skills and the ability to explain technical concepts with clarity.

*Mathematics and Physics Peer Mentor (Volunteer)*

September 2015 - May 2016

- Volunteered for the peer mentoring programme in my sixth form college, providing academic support for first year students.

## NOTABLE PROJECTS

*Flask Wii — sonjoonho.github.io/flask-wii*

July 2018 - August 2018

- Created and deployed an experimental web application that allows the user to turn their smartphone into a 3D controller, with no additional applications.
- Built with Python (Flask) and JavaScript.

*ARM Group Project — sonjoonho.github.io/arm*

May 2018 - June 2018

- Worked in a small group to develop and document an ARM emulator and assembler from scratch, achieving a mark of 87%
- Developed and tested a networked, motion controlled *Pong* game as an extension using OpenCV and SDL2
- Written in C, C++, and ARM11 assembly
- Exposure to the software development cycle, project organisation, and version control software.

*Extended Project "Smart Mirror" (A\*) — sonjoonho.github.io/smart-mirror*

February 2016 - September 2016

- Designed, developed, and constructed a smart mirror device.
- Written in JavaScript wrapped in a Cordova framework, enabling it to run as a mobile application.
- Explored alternate development methodologies and technologies.
- Kept a detailed development journal and wrote detailed documentation as part of my project write-up, subsequently presenting my project to my peers and mentors.

## ACHIEVEMENTS

*Imperial College Taekwondo Secretary and Webmaster*

September 2016 - June 2017

- Manage the day to day running of club activities and communicating with members
- Responsible for liaising with *Imperial College Union*, *Sport Imperial*, and other clubs
- Manage and run the club website (backend and frontend)

*Trading Education Certificate with Merit*

November - December 2017

- Attended an extracurricular course taught by the *Imperial College Finance Society* in association with *Credit Suisse* designed to provide a comprehensive introduction to trading.
- Passed the examination with merit.

## TECHNICAL SKILLS

**Preferred languages:** Java, Python

**Comfortable with:** JavaScript, Git, LaTeX, C

**Exposed to:** Haskell

## ACTIVITIES & INTERESTS

- I enjoy exploring fields of interest in my own time and have completed online courses such as Stanford's 11-week *Machine Learning* course on Coursera and the Google Digital Garage *Online Marketing Fundamentals* course.
- In my free time, I am a committed taekwondo practitioner, competing at tournaments nationally.

**References available upon request.**