

Work experience and Projects**Co-operate**<http://www.cooperate.sg/>**Web Designer***Cooperate aims to connect capable tutors to underprivileged, underperforming youth.*

- Started with Schoolmates and worked with National Youth Council of Singapore to secure a \$1500 grant
- Initially possessed little to no knowledge of HTML and CSS

Extended Essay Research Project*Is Hash Search always more effective than conventional search algorithms?*

- With an extremely brief introduction to Java, Data Structures and Few algorithms, a detailed report was to be written.
- Two part report that analysed the efficiency of hash searching with regular searching algorithms (linear, binary, quick, etc.) and m-level hash table hash searches.

Android School Portal**Android Mobile Application Design***School Portal to improve connectivity and flow of data for Anglo-Chinese School (Independent)*

- A skeletal mobile app that pulled data from all of the various school sites and presented it in a singular location. Built to improve how news travelled within the school as it had largely relied on word of mouth.
- Utilised principles of the Software development life cycle process to develop the application

Neural Network Project<https://git.io/vKTLq>**Handwriting Recognition Software***A research project to understand machine learning which culminated in a web-app*

- Main objective was to design a website to explain to beginners what Neural Networks are.
- Specifically we focused on Restricted Boltzmann Machines
- Ended project with a handwriting recognition app to guess numbers from 0 – 9 using the MNIST Dataset

Bare-metal Raspberry Pi Group Project<https://git.io/vKTLE>**Pac-Man from scratch in C**

- Pac-Man written from scratch in bare-metal C on a raspberry pi without the source code. A custom lego controller was also built for this project.
- <https://github.com/group34-2016/Baremetal-Pac-Man>

*A research project to understand machine learning which culminated in a web-app***Tutoring Services****Mathematics and Physics Tutoring***A part time job after completing the International Baccalaureate.*

- Tutored 6 different students in either Mathematics or physics.
- Generally, improvement was noticed with 2 students increasing from a B (60%-70%) too an A-Star (90%-100%). The rest achieved no less than an A (80%-90%).

Education**Imperial College London****Computing**

- MEng in computing (G401). Started in 2015 and graduating in 2019. Obtained an A grade for the first year (>70%).

Anglo-Chinese School (Independent)

- International Baccalaureate Diploma obtained for Computer Science, Mathematics and Physics at higher level (HL) and Business & Management, Language & Literature and Hindi B at standard level (SL). Obtained a score of 42/45
- Member of Photographic society and organized the inter-school photo competition *Singapore Youth Photography Competition* with a committee.
- Member of Drama Club (Independent Stage) and obtained First place in the inter-school competition *Singapore Youth Festival*
- Participated in International Model United Nations Conference (IMUNC) 2013 and Singapore International Model United Nations (SIMUN) 2013