

Louys T.K. Hong

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Education

2017 – 2021

Imperial College London, Massachusetts Institute of Technology

- MEng Electrical and Electronic Engineering with a Year Abroad at MIT
- The **only** student nominated by Imperial's EEE department to spend a year abroad for an MEng in Computer Science at MIT (2020 - 2021)

Awards:

Silvanus P Thompson Prize for Top Student in 2nd Year (80.84%)

Head of Department's Prize for Top Student in 1st Year (80.52%)

Maurice Hancock Prize for excellence in A Levels

Relevant Courses:

Computer Language Engineering

Machine Learning

Software Engineering

Algorithms & Data Structures

High Level Programming

Statistical Learning Theory

Work Experience

Present Undergraduate Teaching Assistant at Imperial College London

- Support lecturers in weekly problem classes for Maths: answering questions, marking problem sheet submissions and providing feedback to first-year students

2019 Software Development Intern at Curlec (*Malaysian Fintech startup*)

- Used Python to perform data analysis on transaction databases and experimented on creating reports with Google Data Studio
- Implemented a progressive web application to showcase interactive data visualisations and dashboards
- Technologies involved: **Angular, Spring, PostgreSQL**
- Enhanced a client's Direct Debit subscription platform by integrating features with Curlec's API

2018 Technology Intern at Astro (*Malaysian media and pay-TV company*)

- Involved in the end-to-end delivery of multiple set-top box software sprints in a Scrum/Agile environment
- Evaluated and proposed UI/UX enhancements, performed manual testing using proprietary test systems, strategised test plans and triaged bugs with JIRA
- Exposed to various types and approaches of software testing (e.g. writing automation scripts in Python)

Skills

C++	Python	Javascript	Java	F#	Git	HTML&CSS	Angular	SQL
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Notable Projects

Present Tetris Game Console (*Ongoing Personal Project*)

- Writing code for a handheld Tetris console in Python, to be implemented with self-made hardware

2020 VeriTINY (*High Level Programming Project*)

- F# implementation of a Verilog simulator for designing digital circuits, cross-compiled into a Electron app
- Features a Verilog code editor, a block connections interface and a circuit simulator

2019 Vision Text-to-Speech Reading Device (*2nd Year Group Project*) Website: <https://visiontts.weebly.com/>

- Led a team of 6 in the creation of a low-cost learning aid for dyslexic students
- Built an optimised text recognition pipeline with Python, OpenCV and Google Cloud Vision

2018 EEE Rover (*1st Year Group Project*)

- Developed an Android app-controlled rover that detects electromagnetic signals using C++

Other Interests & Activities

Present Electrical Engineering, Finance, Data Science Societies (*Imperial College London*)

- Actively volunteered and participated in club events (e.g. acting as "parent" to first-year students)

Present The Complete Web Development Bootcamp by London App Brewery (*Udemy*)

- Learning full-stack web development tools such as Bootstrap, MongoDB, Node.js and Express

2019 Software Engineering Virtual Experience by JPMorgan Chase

- Used JPMorgan Chase's Perspective to implement stock monitoring functionality to a trader's dashboard