

# Louys Hong

tkh2017@ic.ac.uk • louyshong.github.io • github.com/louyshong

---

## Education

2017 – 2021

### Imperial College London

- 4<sup>th</sup> year MEng Electronic and Information Engineering student
- Final year project entitled “End-to-end Deep Learning-based Autonomous Driving on Embedded GPU Platforms”

Awards:

**Dean's List** for all years

**Silvanus P Thompson Prize** for Top Student in 2<sup>nd</sup> year (80.84%)

**Head of Department's Prize** for Top Student in 1<sup>st</sup> year (80.52%)

**Maurice Hancock Prize** for excellence in A Levels

Relevant Courses:

Machine Learning

Algorithms & Data Structures

Software Engineering

Optimisation

Databases

Computer Architecture

---

## Work Experience

2020 **Software Engineering Intern** at Schlumberger UK

- 6-month internship supporting a team of geophysicists in developing scientific software using Python
- Implemented a novel algorithm that crunches and analyses geophysical data
- Developed a responsive GUI for the algorithm that reduces the processing time from days to minutes
- Libraries used: **NumPy, pandas, SciPy, Matplotlib, Tkinter**

2019 **Undergraduate Teaching Assistant** at Imperial College London

- Conducted weekly problem classes for Maths: answering questions, marking problem sheet submissions and providing feedback to 1<sup>st</sup> year students

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

- Performed 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
- Developed a custom recurring payments management system for a client using Curlec's API
- Technologies used: **Angular, Spring, PostgreSQL**

---

## Skills

Python	C++	F#	Javascript	SQL	Keras	Tensorflow	HTML&CSS	Git	Azure
--------	-----	----	------------	-----	-------	------------	----------	-----	-------

---

## Notable Projects

2020 **VeriTINY** (*High Level Programming coursework*) Repo: [github.com/ImperialCollegeLondon/VeriTINY](https://github.com/ImperialCollegeLondon/VeriTINY)

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

2020 **StarGaze IoT Telescope** (*Embedded Systems coursework*) Website: [lactu3.github.io/StarGaze](https://lactu3.github.io/StarGaze)

- Built a smart telescope and a companion app that helps enthusiasts find constellations and planets
- Technologies used: **I2C, MQTT**

2019 **Vision Text-to-Speech Reading Device** Website: [visiontts.weebly.com](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 OpenCV and Google Cloud Vision

2018 **EEE Rover**

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

---

## Other Interests & Activities

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