Louys T.K. Hong

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

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2017 – 2021 Imperial College London

- 4th 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 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: Machine Learning Software Engineering Databases

Algorithms & Data Structures Optimisation 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 1st 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

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

Notable Projects

2020 VeriTINY (High Level Programming coursework) Repo: 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: lactuca3.github.io/StarGaze

• Built a smart telescope and a companion app that helps enthusiasts find constellations and planets

Website: visiontts.weebly.com

Technologies used: I2C, MQTT

2019 Vision Text-to-Speech Reading Device

- 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