Yong Kin Chong

3rd Year, Electrical Engineering, Tsinghua University

Tsinghua Outstanding Malaysian Scholarship recipient, grew up in Singapore, Japan, China and Malaysia, willing to work internationally, familiar with Python and C programming, looking for opportunities to participate in researches or industrial practices in data science and machine learning.

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EDUCATION

School of Electrical Engineering
Tsinghua University
09/2017 – Present 3.3

Completed Courses

- C/C++ Programing
- Computer Network
- Media Programming
- Python Programming for Social Scientists, Big Data and Social Networks
- Introduction to Auditory-visual Information System
- Data Structure and Algorithm
- Advanced Matlab Programming
- Media Cognition
- Big Data and Machine Intelligence
- Digital Signal Processing

School of Engineering
The Chinese University of Hong Kong
01/2020 – Present *1-semester exchange student*

ORGANIZATIONS

Skyworks（天空工廠） (09/2019 – Present)

Member. Skyworks is the largest student-run tech and innovation club in Tsinghua University for computer vision, embedded system development and UAV. The club is funded by Boeing and MEGVII.

AWARDS & CERTIFICATES

2017 EE Award for Overall Performances, THU（2017年度電子系綜合獎學金） (10/2018)

Highest award for overall performances of electrical engineering student in Tsinghua University.

Tsinghua Outstanding Malaysian Scholarship (08/2017 – Present)

Outstanding performances in both academics and co-curriculum.

Tsinghua-Inditex Belt & Road Scholarship (11/2019)

This supports extraordinary students from Belt-and-Road countries to pursuit on various fields and encompasses cultural exchanges.

SKILLS

C++ | Python | MATLAB | HTML | CSS | SQL

LANGUAGES

Mandarin/普通話
Native or Bilingual Proficiency

English
Professional Working Proficiency

PERSONAL PROJECTS

Classification of debates based on machine learning (12/2019 – 01/2020)

- Using SVM and Keras to classify audio clips of debates into two categories. MFCC from audio clips are used as the input features.

TDOA-based source localization with two microphones (11/2019 – 12/2019)

- By implementing spectral subtraction algorithm, noises are greatly removed from the audio. Sound source localization is done by estimating time difference between two channels using GCC-PHAT.

Single view height estimation (10/2019 – 11/2019)

- Utilizing information extracted from a single image such as vanishing points and lines, with some reference objects, to estimate the height of a particular object in the image.

Data Exploitation from MOOC (04/2019 – 06/2019)

- Using data analysis techniques and Python to unveil the pattern of class enrollments over several academic years in order to provide sugesstions and strategies for university online course selection.

Analysis Platform for Game Reviews (04/2019 – 06/2019)

- Sentimental analysis and Keyword extraction of IGN (Imagine Game Network site) to give users a concise but comprehensive understanding to each articles.
- Web scraping, IF-IDF, Cosine Similarity, automatic HTML generation.

Human Resources Management System (07/2018 – 08/2018)

- An C++ program that empowers the system admin to manage entries to keep an overall knowledge of the company status.

Online Trading Platform for Used Books (01/2017 – 05/2017)

- PHP-based website provides a platform for students and avid readers to exchange information.