



KAH-ONN LOW

Software Engineer



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EDUCATION

SEPT 2015 - MAY 2019

The Hong Kong Polytechnic University,
Bachelor of Engineering (Honours) Mechanical Engineering with First Class Honour (GPA: 4.0)

WORK EXPERIENCE

APR 2019 - PRESENT

HKTaxi App Limited (Software Engineer)

- Developing cross-platform mobile application with Flutter framework
- Implemented a GPS-integrated IoT device to record vehicles data along with their locations
- Developed a taxi management website to view taxis' current locations and previous trip data

JUN 2018 - AUG 2018

Shell Hong Kong Limited (Mechanical Engineering Assistant Intern)

- Proposed a stock inventory minimization plan to save HKD\$ 100,000 operation costs
- Proposed a process to save 80% of installation time of the safety critical equipment of oil tanks
- Performed fish bone analysis to improve asset performance and prolong equipment life based on 1500+ entries of work order data on SAP

PROJECTS

FEB 2020 - PRESENT

Exam Paper Marker

- Developing a mobile application that marks multiple-choice exam paper by reading images
- Developing Django backend server for image processing using OpenCV library
- Implementing web frontend to visualize exam results and statistics

AUG 2019

Flutter Plugin

- Wrote a library to convert Hong Kong Grid 1980 coordinate to WGS 84 latitude and longitude
- Github: https://github.com/lowkahonn/flutter_hkgrid80_wgs84_converter

JUL 2019

Flutter Snake Game

- Coded snake game in Flutter framework
- Android APK: <https://drive.google.com/open?id=19Gt-AKoxlXXBhseVReIVR4abIAopPYgZ>
- Github: <https://github.com/lowkahonn/Flutter-Snake-Game>

SEPT 2018 - MAY 2019

Swarm Unmanned Aerial Vehicle (UAV) System (Final Year Project)

- Assembled 3 quadrotor UAVs with PX4 Autopilots and onboard computers for offboard controls
- Scripted a centralized system with Python and ROS to coordinate UAVs
- Integrated shape-forming, swarming and collision avoidance abilities into the system
- Implemented Uniform Cost Search to allocate position coordinates to UAVs
- Demonstrated the system in indoor with Vicon-tracking system
- Pioneered the research in and provided foundation of research to the department

JAN 2019 - MAY 2019

Quadruped Robot (Academic Project)

- Designed the mechanical structure and the walking mechanism of the robot
- Collaborated with cross-disciplinary individuals during the whole design process
- Controlled the robot via Bluetooth
- Manufactured the robot by 3D Printing Technology and Sheet Metal
- Video: <https://youtu.be/XzctvO8tCok>

MAR 2019 Python Machine Learning Web App

- Built a Linear Regression model to predict real value target based on categorical feature
- Github: <https://github.com/lowkahonn/Simple-Machine-Learning-Web-App>

DEC 2018 Python Multiplayer Snake Game

- Implemented a two-player snake game with Pygame and generated executables for Windows
- Github: <https://github.com/lowkahonn/Multiplayer-Snake-Game>

NOV 2016 - DEC 2016 C++ Email Handler (Academic Project)

- Developed a C++ console application integrated with login system
- Implemented email storing, deleting, sorting and sending features
- Github: <https://github.com/lowkahonn/C-Academic-Project-Email-Handler>

SKILLS

PROGRAMMING LANGUAGES

Front End Development: HTML, CSS, JavaScript
Back End Development: Python (Django and Flask), Node.js
Database Management: MySQL, Redis
Software Development: Flutter, Java
OS environments: Windows, Linux, macOS
Experience & Tools: Git, Bash, IoT
Robotics: ROS

PRODUCT DESIGN

Software: AutoCAD, SolidWorks
Manufacturing: 3D Print, Sheet Metal

LANGUAGES

English, Chinese (Mandarin, Cantonese), Malay

AWARDS & HONOURS

THE HONG KONG POLYTECHNIC UNIVERSITY

- **Rexroth 4EE Scholarship 2019 (HKD\$ 12,500)**
- **Valedictorian of Department 2019**
- **Outstanding Student Award of Department 2018**
- **The Hong Kong & Kowloon Engineering Employers Association Limited Scholarship 2018/19 (HKD\$ 7,500)**
- **HKSAR Government Reaching Out Award 2017-18 (HKD\$ 10,000)**
- **Dean's Honours List 2015/16 & 2016/17**
- **HKSAR Government Targeted Scholarship 2016 (HKD\$ 640,000)**
- **Globex Julmester Scholarship 2016 (HKD\$ 12,000)**
- **Wong Tit-Shing Student Exchange Scholarship (HKD\$ 30,000)**
- **PolyU Outbound Exchange Funding (HKD\$ 19,000)**
- **Champion of Talent Quest 2016 & 2017**

TSUN JIN HIGH SCHOOL

- **Ranked Top 1 nationally in Advanced Mathematics II, MICSS Unified Examination Certificate**
- **Ranked Top 10 nationally in Physics, MICSS Unified Examination Certificate**

LEADERSHIP

THE HONG KONG POLYTECHNIC UNIVERSITY

Student Mentorship

- Gave voluntary speech to 50 students to share my learning experiences and tips on job hunting

External Vice President of Malaysian Student Association 2016

- Integrated 50 participants of 5 different nationalities in a self-organized badminton competition
- Led 40 members to organize Malaysian Night to promote Malaysian culture to 200 participants
- Increased membership by 25% in the coming year
- Obtained departmental funding of HKD\$ 12,000 for organizing events