

# Tse Man Kit Michael



+852 6502 8747



<https://github.com/michaeltmk>



<https://www.linkedin.com/in/man-kit-michael-tse-4013a5176/>



[tse.man.kit.michael@gmail.com](mailto:tse.man.kit.michael@gmail.com)

## About me

A quick learner, explorer, with Science and Engineering background, who have a great interest in new technology that may change the world. I am interested in working for a fast-growing and challenging company that will encourage my growth and development, so as to be the most efficient and effective employee I can possibly be.

## Skills

Python, JavaScript, TensorFlow, Keras, Pytorch, apache spark, SQL, NoSQL, Elasticsearch, Arduino, Raspberry Pi, LaTeX, Matlab, docker, k8s, databricks, NGINX

## Education

2019-2021 MBA in Quantic School of Business and Technology

2017-2019 MSc in Mechanical Engineering, The Hong Kong Polytechnic University

2010-2015 BSc in Maths. & Phys., The University of Hong Kong

## Languages

Cantonese

Mandarin

English

German

## Experience

- 2021-now AI Robotic Engineer Varadise, Hong Kong  
Managed IoT sensors and networks (Raspberry Pi, Arduino, LoRa, sig-fox) development and deployments.  
Managed the robotic simulation development. (ROS, Gazebo)
- 2020-2021 Data Engineer DreamsAi, Hong Kong  
Project based programming, include web scraping, data migration, server infrastructure, and AI development
- 2017-2020 Technical Support Engineer PTC International Limited, Hong Kong  
Provided technical support, demonstration, documentation and troubleshooting.  
Customized data-loggers with alarm function or dashboard etc. written in Python (Raspberry Pi, Arduino, or any other programmable data-logger).

## MOOCs

- Jun 2021 Machine Learning Engineering for Production (MLOps) Specialization DeepLearning.ai  
*Learnt how to deploy ML in production, such as data lifecycle, model pipeline as well as deployment pipeline.*
- Jun 2020 IBM AI Engineering Specialization IBM  
*Learnt to use SciPy, ScikitLearn, apache spark, Keras, PyTorch.*
- Mar 2020 IBM Data Science Specialization IBM  
*Understood the fundamental theories of data science. Learnt to use the ibm cloud, cloud programming, SQL, pandas library, gejson data and beautiful soup package. Link to the capstone project: [Analysis of population and Venue distribution in Hong Kong](#)*
- Feb 2020 Deep Learning Specialization DeepLearning.ai  
*Understood and Practiced on object detection, face recognition, neural style transfer, language translation, speech to word translation, ResNet, Inception, R-CNN, YOLO, CTC, optimizing metrics, dataset distribution strategy, IoU, Bleu score.*
- Nov 2019 Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning Certificate DeepLearning.ai  
*Practiced on CV, NLP, and Sequence Prediction using TensorFlow. Learnt to the concepts of CNN, RNN/LSTM, dropout layer, batch normalization, learning rate adjustment etc.*

## Projects

- 2021 Telegram Bot  
*Chat bot which can report weather by command and submit e-forms. Controlled devices and sent alert of IoT projects.*
- 2020 Analysis of population and Venue distribution in Hong Kong IBM  
*Used K-means clustering and data visualization method to analysis the relationship between population and venues distribution in HK.*  
<https://shorturl.at/tDFJV>
- 2019-2020 OCR (captchas breaking)  
*Demonstrated on computer vision aim with CNN, data collection and data argumentation techniques, written in Tensorflow, python. Trained on captchas collected on a target website and a captchas simulator.*  
[https://github.com/michaeltmk/Captcha\\_cracker](https://github.com/michaeltmk/Captcha_cracker)
- 2019-2020 Wireless Temperature and RH sensor  
*Connected to a server for data storage through wireless.*  
[https://github.com/michaeltmk/StandAlone\\_T-H\\_sensor](https://github.com/michaeltmk/StandAlone_T-H_sensor)