Tse Man Kit Michael

Senior AI engineer

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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, GoLang, JavaScript, C++, SciPy, ScikitLearn, Matlab, TensorFlow, Keras, Pytorch, ROS, Gazebo, kafka, MQTT, spark, SQL, NoSQL, Elasticsearch, Arduino, Raspberry Pi, docker, k8s, kubeflow, AWS, databricks, NGINX, LoRa, sigfox

Experience

2021-now Senior AI Robotic Engineer, scrum master

Varadise, Hong Kong Managed cross-functional team of 9, ranging from site-work technicians to senior software engineer, and collaborated with business development, operations and marketing.

Developed and launched IoT-Hub which managed > 1800 iot devices with > 60 devise type.

Managed iot team and reviewed code to develop a scalable data pipeline which is stable for 9M message per day for now.

Standardized the all time series data input and output schema format including internal and external standard.

Managed AI team, developed and reviewed code of ML application products for CV, such as wheel cleanliness and dump truck cover detection etc., which have been deployed to more than 10 projects. Managed and reviewed code of the development of MLops, Devops,

robotic simulation and chat bot.

2020-2021 Data Engineer DreamsAi, Hong Kong

Developed a card detection ML model for detecting 6 playing cards in a specific location, which have almost reach the human baseline. Developed a email classification with MLops cycle which will auto retrain every 12 hours.

Been responsible for web scraping, data migration, server infrastructure and networking setup.

Managed the internal knowledge base (knowledge Engineer)

2017-2020 Technical Support Engineer PTC International Limited, Hong Kong

Provided technical support, demonstration, documentation and troubleshooting.

Customized data-loggers with alarm function and dashboard using Raspberry Pi, Arduino, or any other programmable data-logger with python or c++.

Set up and troubleshoot wired or wireless network issues (TCP/IP, RS485/RS232, modbus commands, WiFi).

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

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, geojson 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 dis-

tribution strategy, IoU, Bleu score.

Nov 2019 Introduction to TensorFlow for Artificial Intelligence, Machine Learn-

ing, 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.

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3

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9

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Education -

2019-2021 MBA in Quantic School of Business and Technology

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

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

Languages -

Cantonese

Mandarin

English

German

Self-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 HA AI Challenge Hospital Authority

A competition organized by HKSTP and HKHA.

Used effectivenet for classifying around 30 surgery tools.

2020 Analysis of population and Venue distribution in Hong Kong IBM

Used K-means clustering to analysis the relationship between popu-

lation and venues distribution in HK.

https://shorturl.at/tDFJV

2019-2020 OCR (captchas breaking)

Demonstrated on computer vision aim with CNN, data argumentation

techniques, written in Tensorflow.

Trained on captchas collected in web and a captchas simulator.

https://github.com/michaeltmk/Captcha_cracker

2019-2020 Wireless Temperature and RH sensor

Connected to a self-hosting server using a wifi single chip board.

https://github.com/michaeltmk/StandAlone_T-H_sensor