

Chiu, Mang Tik

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Education

Hong Kong University of Science and Technology 2014 – 2018

Bachelor of Engineering – CGA: 3.631, minor GPA: 4.12

- Major in Computer Science and Engineering, minor in Big Data Technology

University of California, Davis

Sep – Dec 2016

Overseas Exchange Program – GPA: 3.85

Leadership and other experiences

Harvard - HKUST summer design experience

Jun – Jul 2017

Construction of Personal Electric Vehicle

- Additional research in road detection and camera feed streaming and remote monitoring

Signal Communication Ltd Internship

Jul – Aug 2016

Engineering trainee

- Implemented email client, and P2P TCP/UDP hole punching for digital video recorders
- Cross compilation for customized ARM CPUs

HKUST Robotics Team, ROV

2015 – 2016

Underwater robot sub team – Head of software, secretary

- Robot control system, UI, network communication design using Robot Operating System (ROS)
- Underwater camera image enhancement, object detection using OpenCV

HKUST undergraduate research opportunity program

Feb – Aug 2017

Machine learning on wearable devices

- Emotion recognition of pedestrians from gait
- Data preprocessing, Naïve Bayes, SVMs and Artificial Neural Networks, performance optimization

Related projects

Santander product recommendation – Machine Learning

- Recommendation system on Santander data using SVD, ANN, SVM and Naïve Bayes

ScholarsNet – Big Data Mining and Management

- Minimalistic paper portal using tf-idf vectorizer, similarity algorithms and Naïve Bayes
- Used SQLite, Scrapy, Urllib for system implementation

CloudCrime – Cloud computing and big data systems

- Criminal cases location analysis and visualization using k-means clustering on Amazon AWS

MyOpenGL – Computer Graphics

- Implementation of OpenGL library for model rendering, lighting and spatial transformations

Skills

Programming languages – C, C++, Python, Matlab, Java, SQL, chicken scheme

Frameworks – scikit-learn, OpenCV, OpenGL, WinAPI

Languages –Cantonese(Native), Mandarin(Native), English(Proficient)