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EDUCATION

Carnegie Mellon University **Aug 2018-present**

M.S. in Electrical and Computer Engineering

GPA: 4.00/4.00

Courses: ML with large datasets, Optimization, Probabilistic Graphical Model

The Hong Kong Polytechnic University

B.E. in Electronic and Information Engineering

Sept 2014-May 2018

Minor in Computer Science

GPA: 3.76/4.00 with 1st Class Honor

RESEARCH EXPERIENCE

Carnegie Mellon University **Oct 2018-Mar 2019**

Complex time series data analysis, with Dr. Ruslan Salakhutdinov

- Developed complex valued transformer to apply on complex signal to perform sequence prediction and generation.

State Key Laboratory of Computer Architecture, Institute of Computing Technology, Chinese Academy of Sciences **May 2018-Jul 2018**

Large-scale Graph Analytics and Processing, with Dr. Shimin Chen [\[link\]](#)

- Developed PAST, a framework for efficient Partitioning and query processing of Spatial-Temporal graphs with Apache Cassandra and Apache Spark.

The Hong Kong Polytechnic University

Sept 2017-Apr 2018

Hadoop and Spark for Data Analysis and Machine Learning, with Dr. Man-Wai Mak

- Developed a recommendation system with Gaussian mixture model and non-negative matrix factorization with large-scale Yahoo! datasets on AWS based on MapReduce and Apache Spark.

PROFESSIONAL EXPERIENCE

Qualcomm Wireless Communication Technologies (China) Limited **May 2017-Aug 2017**

- Worked on recognition for a combination of video and natural language signal.

PROJECT EXPERIENCE

Model Implementation of Intelligent Car Park System **Sept 2016-Apr 2017**

- Developed a system to compute the optimal parking location, remote control to achieve the data transmission between control center, and elevator operations.

PolyU Micro Fund

Dec 2015-Jan 2016

- Designed an intelligent property service system that included intelligent wearables and mobile application, aiding in elderly healthcare in communities.

COMPETITION EXPERIENCE

Robotic Challenge

Aug 2017

- Designed a remote-control car with Raspberry Pi using Python to complete tasks including grasping table tennis into specified circle and sensing infrared ray.

PolyU Hackathon

Feb 2017

- Designed a mini-game with Ruby to provide players a simulation experience of life of the disabled.

EXTRACURRICULAR ACTIVITIES

Promotion Officer of PolyU Zonta Club

Sept 2015-May 2016

- Organized and promoted activities of voluntary service for elders and children in Hong Kong.

Technology beyond Borders

May 2015-Jun 2015

- Designed and installed LED boards and storage batteries for local residents in Cambodia village.

AWARDS & HONORS

- Dean's Honors List **2017, 2016, 2015**
- Second Prize and the CC-Link Special Award in the 11th "Mitsubishi Electric Cup" National Electric and Automation Contest for College Students **2017**
- 2nd Runner up, Robotic Challenge **2016**

SKILLS

- Software & Toolbox PyTorch, TensorFlow, CUDA, cuDNN, Keras
- Programming Languages C, C++, Java, php, JavaScript, Python, MATLAB