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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.

Institute of Software, Chinese Academy of Sciences **Jul 2017-Aug 2017**
Searching Time Period-Based Longest Frequent Path in Big Trajectory Data, with Dr. Limin Guo

- Developed a system to find the location of the nearest taxi in real time.
- Implemented range query and K-nearest-neighbor query with structures including hashtable, R-tree-index and Nearerst Neighbor heap.

PROFESSIONAL EXPERIENCE

Qualcomm Wireless Communication Technologies (China) Limited

- 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