KUAN-YU CHEN

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OBJECTIVE

To obtain an Internship and sharpen my skills to be successful as a Data Scientist.

EDUCATION

September 2016 – April 2018
University of Michigan (UMich), Ann Arbor, Michigan, United States
Master of Science in Electrical and Computer Engineering (Machine Learning Track). Overall GPA: 3.4/4.0

September 2011 – June 2015
National Taiwan University (NTU), Taipei, Taiwan
Bachelor of Science in Engineering Science and Ocean Engineering
(Presidential Award 2015 Fall– Awarded to students ranking top 5% in department)
Major GPA: 4.03/4.3, Overall GPA: 3.71/4.3

WORK EXPERIENCE

September 2015 – August 2016
Teaching Assistant, NTU
- Taught and assisted Engineering Mathematic, Linear Algebra, Signals and Systems, Fundamental Engineering Laboratory in a class of 50

July 2014 – September 2014
Intern, Research and Development Department, AIRTEK, New Taipei
- Constructed a communication system for the controllers and test the stability of the system
- Built user interfaces for the products using company software: BACSoft

PROJECTS / RESEARCH EXPERIENCE

September 2016 – Present
GEMS: Graph Exploration and Mining at Scale Lab, UMich
- Topic: Hashed-based Alignment of Multiple Graphs
- Design an algorithm that utilize Locality Sensitive Hashing to get potential matching when given multiple graphs
- Explore through different attributes, hashing settings and datasets to align graphs both effectively and efficiently by writing scripts in Python
- Improve our algorithm to guarantee performance on larger graphs

September 2016 – December 2016
Mining Large-scale Graph Data Course, UMich
- Topic: Anomaly Detection via Transfer Learning
- Processed large temporary YouTube Datasets, extracted various attributes and constructed graphs using Python
- Apply machine learning algorithms and learn labels for each node
- Find potential anomalies using mismatching labels

September 2016 – December 2016
Machine Learning Course, UMich
- Topic: Apprenticeship Learning
- Implement self-learning techniques on a GridWorld and a car driving simulation experiment using Python
- Analyze our results with different algorithms and experiment settings

TECHNICAL SKILLS

Machine Learning	Implemented classification, regression, clustering and feature engineering
UMich courses	Probability, Graph Mining, Database and Operating System
Coursera courses	Algorithm and Recommender Systems
Programming	Python (scikit-learn, numpy, scipy, matplotlib, pandas), Oracle SQL, C++ and JAVA
Software	MATLAB, Hadoop (Mapreduce in Python), LaTex and Microsoft Excel