KUAN-YU (DAVID) CHEN

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OBJECTIVE

To obtain a Full-Time job and sharpen my skills to be successful as a Software Engineer.

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: 3.45/4.0

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

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, regex), Relational Database (Oracle SQL, Hive, Teradata), C++ and JAVA
Software	Hadoop (MapReduce in Python), Qubole, MATLAB, LaTex and Microsoft Excel

WORK EXPERIENCE

May 2017 – August 2017
Software Engineer Internship, Expedia, Inc., Chicago
Data Engineering Team

- Project: MapReduce job for Transaction Data
- Analyzed Omniture data stored on AWS by running Hive queries on Qubole
- Wrote MapReduce code in Python with logic that incorporates various input format to extract all necessary Transaction information
- Do testing though Jenkins on different environments (Include running MapReduce job through Hadoop on AWS and loading data into tables)

September 2015 – August 2016
Teaching Assistant, NTU

- Taught and assisted Linear Algebra, Engineering Mathematics, Signals and Systems, Fundamental Engineering Laboratory in a class of 50

PROJECTS / RESEARCH EXPERIENCE

September 2016 – April 2017
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