KUAN-YU (David) CHEN

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| **EDUCATION** | |
| September 2016  – April 2018  September 2011  – June 2015 | University of Michigan, Ann Arbor, Michigan, United States  Master of Science  Electrical and Computer Engineering(Machine Learning Track)  GPA: 3.45 / 4.0  National Taiwan University (NTU), Taipei, Taiwan  Bachelor of Science  Engineering Science and Ocean Engineering (ESOE)  Major GPA: 4.03/4.3, Overall GPA: 3.71/4.3 |
| **RESEARCH EXPERIENCE** | |
| September 2016  – April 2017 | GEMS: Graph Exploration and Mining at Scale Lab, UMich   * Topic: Hash-based Alignment for Multiple Graphs * Design an algorithm that utilize locality sensitive hashing to find potential matching when given multiple graphs * Explore through different attributes, hashing settings and datasets to align graphs both effectively and efficiently * Improve our algorithm and combine with existing alignment algorithms to guarantee performance on larger graphs |
| September 2015  – February 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 mismatches labels and compare with baseline anomaly detection algorithm |
| **WORK EXPERIENCE** | |
| May 2017 – August 2017 | Software Engineer Internship, Expedia Inc., Chicago  Data Engineering Team   * Analyzed data stored on AWS with Hive queries on Qubole * Wrote MapReduce code in Python with logic incorporating various input format to extract all Transaction information * Do testing on different environments (Include running MapReduce job through Hadoop on AWS) |
| September 2015 – August 2016 | Teaching Assistant, NTU   * Taught and assisted in Engineering Mathematic, Linear Algebra, Signals and Systems, Fundamental Engineering Laboratory in a class of 50 |
| **AWARDS AND ACHIEVEMENTS** | |
| Fall 2014 | Presidential Award   * Awarded to students ranking top 5% in department |
| January 2014 | Bicycle Tour of Taiwan |
| **EXTRACURRICULAR ACTIVITIES** | |
| July 2012 – August 2014 | The ESOE Student Association   * Activities Coordinator of NTU ESOE Summer Camp, 2014 * Creative Director of the NTU ESOE Orientation Camp, 2013 |
| September 2011 – June 2013  April 2015 – Present | NTU Pop Dance Club   * Public relations   Devoted to working out four times a week |
| **SKILLS** | |
| Language    Technical Skills | Fluent in Mandarin, Intermediate in English  Data Mining, Machine Learning (clustering, regression, clustering, anomaly detection, feature engineering), Probability, Database Management System, Operating System |
| Programming:  Software | Familiar with Python (scikit-learn, numpy, scipy, pandas, regex) and Relational Database (Oracle SQL, Hive, Teradata). Experienced with C++, JAVA  Hadoop (Mapreduce in Python), Qubole, MATLAB, Microsoft Excel, LaTex |
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