PU-CHIN CHEN

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EDUCATION

University of California, Los Angeles (UCLA)

Distance Education in the 1st year

M.S. in Data Science Engineering

Sept. 2016-June 2018

- Coursework: Database Systems, Data Mining; Anticipated Courses: Big Data Systems, Social Network Analysis, Pattern Recognition and Machine Learning, Convex Optimization, Bayesian Networks, Monte Carlo Methods for Optimization
- GPA: 4.0/4.0; GRE: Q170/170 (**Top 3%**)

National Taiwan University (NTU)

Taipei, Taiwan

B.S. in Computer Science

Sept. 2011-June 2015

- Coursework: Data Structures and Algorithms, Operating System, Computer Network, Object-Oriented Software Design, Machine Learning, Web Retrieval and Mining, Linear Algebra, Probability, Advanced Statistics
- Taiwan National College Entrance Exam: Math: 100/100 (Top 1%); Physics: 99/100 (Top 0.1%)
- Bachelor Thesis Project: Manipulating Drones by Gestures Recognition
 - Represented NTU in 2015 Stanford Treehacks Hackathon; Created a body-controlled drone system using Java on Processing platform to control Kinect and AR.Drone within 36 hours, attracting 2 companies for potential cooperation.
 - Achieved 90%+ accuracy to recognize 8 gestures in real-time using K-nearest neighbor algorithm; Proposed speeddetection algorithms reducing 10-25% time delay caused by inertia forces.

WORK EXPERIENCE

Data Science Intern Taipei, Taiwan

Far EasTone Telecommunications Co.

Winter 2017

- Designed an efficient algorithm converting raw data to feature datasets; Optimized MySQL performance from exponential time to linear time.
- Mined time series data and found customer behaviors.

Database Administrator Taipei, Taiwan

DiQi Inc. (Blockchain Technology Startup)

Oct. 2014-Feb. 2015

- Communicated with business partner and identified client needs, striking a balance between their requirements.
- · Conducted in-depth research and analysis on consumers' behavior to design database schema.
- Constructed NoSQL server using MongoDB and monitored database performance on a daily basis; Established the network between Android client apps and server by socket programming using Java.

SELECTED PROJECTS

Movie Database System with Web Interface, Database Systems

UCLA

- Unified a variety of querying, browsing and data adding functionality as an easy-to-use Web Service. Sept. 2016-Oct. 2016
- Launched a movie database system using MySQL with PHP and Apache2 server handling 100,000+ data.

Level Learning: Classify Tutorials by Difficulty, Web Retrieval and Mining

NTU

- Extracted text features using TF-IDF concept from online learning tutorials crawled by Python.
 Mar. 2014-June 2014
- Ranked 10 levels of documents difficulty for each query using semi-supervised learning.

Handwriting Recognition System for Chinese Characters, *Machine Learning*

NTU

- Improved 10-15% accuracy by image pre-processing(e.g. trim redundant margin, normalize font size). Nov. 2013-Jan. 2014
- Experimented several models(e.g. SVM, linear regression) and got 82.1% accuracy using random forest.

Majoraha: A Salary-Oriented Platform for College Major, Summer School Course Project

UC Berkeley

- Analyzed data crawled from 3 websites and presented the impact of college majors on future earnings.
- Visualized breakdown of salaries in relation to majors by bar chart, line chart, pie chart and bubble chart using D3.js.

EXTRA CURRICULAR ACTIVITY

Vice President Taipei, Taiwan

NTU Hackathon Organization

Mar. 2015-Aug. 2015

- Led an organization with 9 departments of 68 members and 80 volunteers to host a 3-day hackathon for more than 800 nationwide students and industry professionals; Achieved the biggest hackathon event in Taiwan.
- Integrated cross-department communication and directed a technical team to build official websites, web game and bicycle tail light for marketing purpose; Technobogies included NodeJS, ReactJS, AnuglarJS, Dart and Arduino.

SKILLS & INTERESTS

Proficient in: Java, C/C++, JavaScript, SQL, Python, MongoDB
Languages: Native in Mandarin; Fluent in English

Familiar with: PHP, NodeJS, ReactJS, UNIX shell script, Git, 上下上X
Interests: Street Dance, Swing Dance, Chinese History