

PU-CHIN CHEN

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EDUCATION

University of California, Los Angeles (UCLA)

M.S. in Data Science Engineering

Distance Education in the 1st year

Sept. 2016-June 2018

- Coursework: Database Systems; Anticipated Courses: Big Data Analytics, Big Data Systems, Adaptation and Learning, Advanced Modeling and Inference, Learning and Reasoning with Bayesian Networks
- GRE: Q170/170 (Top 3%)

National Taiwan University (NTU)

B.S. in Computer Science

Taipei, Taiwan

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 recognise 8 gestures in real-time using K-nearest neighbour algorithm; Proposed speed-detection algorithms reducing 10-25% time delay due to inertia forces.

PROFESSIONAL EXPERIENCE

Teaching Assistant

Data Structured and Algorithms

Taipei, Taiwan

Mar. 2015-June 2015

- Developed tools for automated grading of programming assignments; Resolved students' questions in a timely manner.
- Coordinated with teacher and other TAs to increase students' performance; Initiated and instructed Linux and Git workshops for a 200+ enrolled students class, improving learning efficiency from students' feedbacks.

Database Administrator

DiQi Inc.

Taipei, Taiwan

Oct. 2014-Feb. 2015

- Communicated with business partner and identified client needs; 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.

PROJECT EXPERIENCE

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. Summer 2013
- 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

NTU Hackathon Organization

Taipei, Taiwan

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. Technologies included NodeJS, ReactJS, AnuglarJS, Dart and Arduino.

SKILLS & INTERESTS

Proficient in: Java, C/C++, SQL, PHP, JavaScript, NodeJS, HTML, Git

Familiar with: Python, MongoDB, ReactJS, UNIX shell script, \LaTeX

Languages: Native in Mandarin; Fluent in English

Interests: Street Dance, Swing Dance, Chinese History