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; Anticipated Courses: Big Data Analytics, Big Data Systems, Adaptation and Learning, Advanced Modeling and Inference, Learning and Reasoning with Bayesian Networks
- 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 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
Taipei, Taiwan

Data Structured and Algorithms — 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
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.

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.

Role-Playing Game, *Object-Oriented Programming*
NTU
- Designed a map editor for utilising image elements and generating multiple relational maps.   Mar. 2013-June 2013
- Developed core game features including dialog system, sound effects, moving animation, bag for holding accessories, map switching and keyboard control system using Java Swing GUI.

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

SKILLS & INTERESTS

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

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

Languages: Native in Mandarin; Fluent in English

Interests: Street Dance, Swing Dance, Chinese History