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: Data Mining, Big Data Systems, Social Network Analysis, Pattern Recognition and Machine Learning, Reasoning with 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 speed-detection algorithms reducing 10-25% time delay caused by 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.

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   **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   **Familiar with:** PHP, NodeJS, ReactJS, UNIX shell script, Git, LaTeX
Languages: Native in Mandarin; Fluent in English   **Interests:** Street Dance, Swing Dance, Chinese History