

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-Present

- Coursework: Database Systems, Data Mining; Anticipated Courses: Big Data Systems, Artificial Intelligence, Pattern Recognition and Machine Learning, Computer Security, Database and Knowledge Bases, Convex Optimization
- GPA: 4.0/4.0; 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%**)

WORK EXPERIENCE

Data Science Intern

Far EasTone Telecommunications Co.

Taipei, Taiwan

Jan. 2017-Present

- Optimized MySQL database with **3000%** improvement from exponential to linear time (e.g. 7 days to 6 hours); Expanded scalability of data wrangling system and paralleled tasks under Linux architecture.
- Extracted features from **billions** of daily machine-generated data; Transformed hundreds of time series and spatial attributes to business interpretable variables; Built customer satisfaction forecasting model using Python sklearn.
- Analyzed customer behavior and lifestyle from **7 million** users through trajectory mining and time series clustering using discrete wavelet transform; Eliminated anomaly data using outlier detection.

Database Administrator

DiQi Inc. (Blockchain Technology Startup)

Taipei, Taiwan

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 user habits 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. Fall 2016
- Launched a movie database system using MySQL with PHP and Apache2 server handling 100,000+ data.

Manipulating Drones by Gestures Recognition, *Bachelor Thesis Project*

Stanford

- Achieved 90%+ accuracy to recognize 8 gestures in real-time using K-nearest neighbor algorithm. Winter 2015
- Created a body-controlled drone system within 36 hours using Java to control Kinect and AR.Drone; Proposed speed-detection algorithms reducing 10-25% time delay caused by inertia forces.
- Represented NTU in 2015 Stanford Treehacks Hackathon, attracting 2 companies for potential cooperation.

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

NTU

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

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, Python, SQL, C/C++, JavaScript, Linux, Git
Languages: Native in Mandarin; Fluent in English

Familiar with: PHP, NodeJS, MongoDB, \LaTeX
Interests: Street Dance, Coffee, Chinese History