Pu-Chin Chen

puchinchen@ucla.edu | +(886) 921 448810 | • michaelchen110 6F., No.15, Aly. 46, Ln. 553, Sec. 4, Zhongxiao E. Rd., Xinyi Dist., Taipei City 110, Taiwan (R.O.C.)

Education

University of California, Los Angeles

Sept. 2016-June 2018(expected)

M.S. in Data Science Engineering (distance education in my 1st year)

• 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

University of California, Berkeley

July 2013-Aug. 2013

Summer Program

GPA: 3.7/4.0

National Taiwan University (NTU)

Sept. 2011-June 2015

B.S. in Computer Science & Information Engineering (CSIE)

Last 60 GPA: 3.46/4.0

 Coursework: Data Structures and Algorithms, Operating System, Computer Network, Object-Oriented Software Design, Machine Learning, Web Retrieval and Mining, Linear Algebra, Probability, Advanced Statistics

Project Experience

Movie Database System with Web Interface, Database Systems, UCLA

Sept. 2016-Oct. 2016

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

Fleat: Manipulating Drones by Hand Gestures, Treehacks Hackathon, Stanford

Feb. 20th-22nd, 2015

- Created a body-controlled drone system by Java and Kinect, 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.

User Defined Gestures for Flying Objects, Bachelor Thesis, NTU

June 2014-Oct. 2014

- Summarised a set of most intuitive in-air gestures reflecting user behaviours such as ease of recognition, consistency, reversibility, and versatility, making it a good candidate for deployment in drone systems.
- Presented a taxonomy useful for analysing and characterising gestures in drone development.

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

Mar. 2014-June 2014

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

Handwriting Recognition System for Chinese Characters, Machine Learning, NTU

Nov. 2013-Jan. 2014

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

Role-Playing Game, Object-Oriented Programming, NTU

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.
- Designed a map editor for utilising image elements and generating multiple relational maps.

AP Beacon Data Transfer, Computer Network Laboratory, NTU

Mar. 2014-June 2014

- Used android phone as access point. Revised SSID by android API.
- Improved indoor transmission distance up to 20 meters.

Majoraha: A Salary-Oriented Platform for College Major, UC Berkeley

July 2013-Aug. 2013

- Ranked average starting salary, average mid-career salary and growth in pay over university majors.
- Visualized salary data crawled from Forbes by D3.is.

Official Website, HackNTU, NTU

Nov. 2014-Feb. 2015

• Implemented by NodeJS and ReactJS.

A Wearable Rehabilitative Device for Supporting Drug Addicts, Designing for User Experience, NTU Oct. 2014-Jan. 2015

- Executed the UX design process, including interviewing target audience, synthesizing field notes by affinity diagram, clarifying three insights and building the Persona.
- Integrated three solutions within an intelligent watch, helping reduce drug addiction relapse.

Work & Leadership Experience

Mandatory Military Service, Artillary Soldier, Taiwan (R.O.C) Army

Aug. 2015-Aug. 2016

• Served as a qualified 20 mm cannon operator. Proficient in PSTAR radar and DMS missile system mounting.

Teaching Assistant, Data Structure and Algorithm, NTU-CSIE

Mar. 2015-June 2015

• Initiated and instructed linux and git foundation workshops first time in this course for a **200**+ enrolled students class, which helped improve learning efficiency significantly from feedbacks of most students.

Back-End Engineer, Fountain Inc., Taipei, Taiwan

Oct. 2014-Feb. 2015

- Designed schema and constructed database for our e-commerce platform by MongoDB and Java.
- Established the network between Android client and Java server by socket programming.

Vice President, HackNTU

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.
- 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.
- Achieved sponsorship for more than **NT\$3,000,000** through building collaborative partnership with 10 multinational enterprises such as Foxconn, Taipei City Government, Tutor ABC, Plug&Play, CyberLink.

Skills

Languages: Native in Mandarin; Fluent in English

Proficient in: Java, C/C++, SQL, PHP, JavaScript, NodeJS, HTML, Git **Familiar with:** Python, MongoDB, ReactJS, UNIX shell scripting, LATEX

Interests: Street Dance, Swing Dance, Chinese History