

Education

Sep. 2012 – Jun. 2016

National Chiao Tung University, Bachelor of Science

Hsinchu, Taiwan

- Major: Computer Science (GPA: 3.53/4.00, Last 60 Units: 3.92/4.00)
- Relevant Courses (*graduate level courses):

Data Mining*, Cloud Computing Systems and Applications*, Introduction to Database Design, Algorithms, Statistics, Probability, Data Structures, Linear Algebra, Technology Entrepreneurship

Feb. 2016 - Jun. 2016

University of Technology of Compiègne, Exchange Student

Compiègne, France

Publications

Li-An Yang, Jui-Pin Liu, Chao-Hong Chen, & Ying-Ping Chen. (2016). Automatically Proving Mathematical Theorems with Evolutionary Algorithms and Proof Assistants. In Proceedings of 2016 IEEE Congress on Evolutionary Computation (CEC 2016). (pp. 4421–4428). doi: 10.1109/CEC.2016.7744352. (EI). [Github]

Work Experience

Research Assistant, Institute of Information Science, Academia Sinica

Mar. 2017 - Present

- De Novo Genome Assembly
 - Proposed an intelligent process of genome assembly with XGBoost for subset selection of sequencing reads
 - Achieved the relative improvements of assembly results ranging from 25% to 35% on N50 statistic
- User Intention Understanding on Taiwan Open Platform for Educational Resources
 - Revealed search keyword trends via website log data characterization
 - Developed and automated the keyword generation pipeline for resource recommendation in primary education

Private, Military Police, Taiwan (compulsory military service)

Sep. 2016 - Jan. 2017

R&D Intern, Email Reputation Services Division, Trend Micro Inc.

Jul. 2015 - Aug. 2015

- Pattern Recognition
 - Simulated patterns of malicious mail attacks with log-based data hashing and clustering
 - Successfully identified new paradigms out of originally unstructured metadata

Selected Term Projects

Automatically Proving Mathematical Theorems with Evolutionary Algorithms and Proof Assistants [Link] [Github]

- The first to generate formal proofs automatically by exploiting proof assistant Cog with evolutionary algorithms
- Proved ten theorems in different branches of mathematics automatically: Arithmetic, Logic, & Parity

A Voice-controlled Streaming Jukebox based on IBM Bluemix Cloud Service [Link]

- Established music streaming services on Raspberry Pi featuring personal music recommendation
- Deployed IBM Watson APIs to carry out on-demand speech-text transcription and social networking services

Right Whale Recognition Competition on Kaggle [Link]

- Adopted a bag-of-features model to extract distinctive image features
- Improved the evaluated score by thirty percent in limited time

A Gitlab Continuous Integration Cloud Service [Link]

- Built a cloud service for version control that automatically ran builds and self-testing when a commit was pushed
- Launched multiple composite cloud applications via a yaml template on Openstack

Honors and Scholarships

Cloud Computing Credit Program Certificate, National Chiao Tung University

Spring 2016

· Approved the corresponding skills via completing the required Cloud Computing curriculum

Philéas Accueil Scholarship, University of Technology of Compiègne

Spring 2016

Awarded to brilliant exchange students at UTC in France

Fellowship for Research Projects in Computer Science, National Chiao Tung University

Fall 2015

Statement of Accomplishment. Coursera

Spring 2015

- Completed Machine Learning from Professor Andrew Ng, Stanford University
- Completed R Programming from Professor Roger D. Peng, John Hopkins University

Skills & Test Scores

Programming Languages Python, R, MATLAB, C/C++, HTML, Javascript, PHP

Languages English (fluent), Mandarin Chinese (native), French (basic)

TOEFL iBT 108/120 (Reading 30, Listening 28, Writing 27, Speaking 23)

GRE Verbal (150/170), Quantitative (168/170), Analytical Writing (3.5/6.0)

Diploma in French Studies A2 76.5/100 (Reading 22, Listening 14, Writing 21, Speaking 19.5)

Community Service

Volunteer at Emmaüs Village in Lescar, France

· Worked with rehabilitated people and other international volunteers in various factories

Volunteer of the Hsing-Guang Project in Hsinchu, Taiwan

• Entered a remote mountain area to teach educationally underserved children every other week

Volunteer of the "Teaching English in China" English Teaching Program in Chaozhou, China

• Faced more than thirty junior children on stage who barely spoke any foreign language