

Ting-An Chou

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Education	NATIONAL TAIWAN UNIVERSITY Bachelor of Science, Computer Science and Information Engineering GPA overall: 3.12/4.0 , GPA last 2 years: 3.6/4.0	Taipei, Taiwan June 2015
Skills	Languages HTML/CSS, JavaScript/Node.js, C/C++, Processing, PHP, SQL, R, Perl, Python Tools MATLAB, Arduino, Photoshop, Illustrator Software Apache, nginx, Git, Vim, MATLAB Operating Systems Unix/Linux, Windows, Mac OSX	
Test Scores	GRE Quantitative (170/170), Verbal (149/170), Analytical Writing (2.5/6.0) TOEFL iBT 99/120 (Reading 26, Listening 27, Writing 26, Speaking 20)	

Professional Experience

- 2.2016 - **Research Assistant**, Academic Sinica, Institute of Information Science, [Data Insights Research Lab](#)
Advisor: Prof. [Kuan-Ta Chen](#)
Apple Daily Donor Matching Platform ([web](#))
Implemented a charitable article recommendation platform, helping matching the donors and someone in need. Planned and implemented new user interface, user experience and website flow, data collection for libfm training and recommended system. (PHP, MySQL, Python, R, JavaScript)
Smartdonor ([web](#))
Reconstructed the website, which is designed for financial transparency of NPOs in Taiwan.
Data Insights Research Lab Website ([web](#))
Collaborated with designer to revise the old website and reconstruct the Back End.
- 2.2016 - **Web Developer**, Data Science in Taiwan Conference
Built the conference website ([web](#)) and eight landing pages for series activities ([web](#)).
- 7.2015 - 11.2015 **Front End Developer**, eSkyGo Ltd.
 - Maintained crowdfunding platform Wuyouchou, responsible for the Front End part (HTML, CSS, JavaScript, JSP, Java).
 - Front End lead for WeChat application Intelliparking (HTML5 web app), used node.js, dust.js and other Front End technology and responsible for Front End and Back End integration. Participated in product planning.
- 7.2014 - 5.2015 **Back End Developer**, [Finpo Creative Design](#)
 - Used PHP with MVC framework (Zend) and MySQL to built customize e-commerce website, responsible for the Back End programming with maintainable database. Created RESTful APIs for Front End development, including [Travel goods website](#), [Maternal and infant supplies e-commerce website](#), [Bakery website](#) and Order Manage System for painting seller with online image editor for customers from eBay.
 - Built Back End GUI with Ext.js.
 - API integration including migrating [Wow!News](#) contents into MSN news and credit card payment gateway integration.
- 7.2013 - 7.2014 **Research Assistant**, National Taiwan University, Language Technologies Laboratory
Advisor: Prof. [Zhao-Ming Gao](#)
 - Researched in natural language processing, language data processing and analysis, machine learning for National Science Council plan, using R, Python, Perl. Analysed likelihood-ratio

test of Probabilistic Context-Free Grammars and lexical ([web](#)). Built elementary school textbook corpus using data from Kang Hsuan Educational ([web](#)).

- Developed software for language research by the Language Training & Testing Center ([LTTTC](#)) and Graduate Institute of Linguistics at National Taiwan University ([GIL](#), NTU) using data from General English Proficiency Test (GEPT). Rebuilt The LTTTC English Learner Corpus ([web](#)) with new search features including [Collocation Search](#) for understanding commonly collocation usage mistakes, [Keyword Search](#) for understanding usage frequency and common mistakes of specific keywords and [Ngram Search](#) for searching phrases and idioms.

Winter, 2012

Intern Engineer, Pro Information Corp.

Maintained E-commerce website [55555](#)

Projects

2015

One Day One Project ([web](#)), Rapid Prototyping Workshop

2015

DJ Board ([web](#)), Course Project for Topics in Software Design for Embedded Systems, NTU
Implemented an interactive skateboard using C on Arduino platform. Received user's body motions as inputs from multiple sensors to trigger different types of music effects.

2014

Smart Elderly Care, Course project for Product Design and Innovation, NTU
An IoT solution for Community-Based Smart Elderly Care including uploading environment data to cloud server through Wi-Fi and Monitor, which can show all kinds of information through webpage. Once an anomaly (data analysis on our server) is detected, the alarm pops out in monitor. (HTML, CSS, JavaScript, jQuery, Google API)

2014

Epicture ([web](#)), Project for [OpenHCI Workshop](#)
Created a special dining experience by playing music while eating. Implemented a set of musical cutlery using C on Arduino platform. Detected the sequence of use and movement of users to create realtime harmony music.

2014

Tennis Recognition, Project Course for Multimedia Analysis and Indexing, NTU
Implement tennis recognition by building court model (white pixel detector, Hough transform, model fitting and line correspondence) and player tracking (range of interest segmentation and non-dominant color extraction) with MATLAB.

2014

Pitch Race, Project Course for Music Signal Analysis and Retrieval, NTU
A real time pitch recognition JavaScript car race game. The movement of cars controlled by pitch.

2014

Easy Terminal, Project Course for Computer Network Laboratory, NTU
Built workstation on browser with features including files system, "drag and drop" upload, download files, online code editor and printing. Used PHPSecLib to implement SSH and SFTP connection, and CodeMirror to implement online code editor. (HTML, CSS, JavaScript, PHP, MySQL)

Service and Other Activities

Summer, 2016

Registration and Reception Team Leader, Data Science in Taiwan Conference

Planned the registration process for 1,800 attendees, including the training of 30 volunteer staff.

2013 - 2014

Volleyball Team Captain, NTU Computer Science & Information Engineering Dept.

2013 - 2014

Executive Secretary, NTU Computer Science & Information Engineering Dept. [Student Council](#)

Summer, 2013

Artist Director, NTU x National Chengchi University Orientation Camp

Winter, 2013

Artist Director, NTU Computer Science & Information Engineering Dept. Night