

# CHENG-YU HSU

SOFTWARE DEVELOPER

📍 Taiwan (GMT+8)  
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✉ m@cyhsu.me

## EDUCATION

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### Master of Computer Science

National Tsing Hua University

Nov 2016

Hsinchu, Taiwan

### Bachelor of Computer Science

National Tsing Hua University

Jun 2014

Hsinchu, Taiwan

## EXPERIENCE

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### Research Assistant

National Tsing Hua University

Jul 2014 — Nov 2016

Hsinchu, Taiwan

- Develop scientific computing / machine learning programs
- Cooperate with companies to build smart systems based on their data
- Collect and process data for research purposes
- Automate experiment processes on clusters

### Freelance iOS Developer

Self-employed

Jul 2014 — Nov 2016

Remote

- Cooperate with organizations, companies, and startups to build iOS apps for their services

### Contract Full Stack Developer

GitHub (Google Summer of Code)

Apr 2016 — Sep 2016

Remote

- Design and implement new features based on user feedbacks
- Maintain the existing application and roll bug fixes

### Teaching Assistant (Machine Learning)

National Tsing Hua University

Sep 2015 — Feb 2016

Hsinchu, Taiwan

- Design assignments for graduate students to gain experience in developing suitable machine learning models for particular data tasks
- Deliver additional lectures covering essentials statistical and mathematical knowledge that are frequently used in machine learning research

### Teaching Assistant (Software Studio)

National Tsing Hua University

Sep 2014 — Feb 2015

Hsinchu, Taiwan

- Design and deliver hands-on labs on general software development skills and processes for sophomore computer science students

### Contract Developer

Hsinchu City Teacher's Association

Aug 2011 — Feb 2012

Remote

- Maintain the existing website and roll fixes based on user feedback
- Design and implement content management system for other administrators

## SELECTED PROJECTS

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### GitHub Classroom

Full Stack Developer

- Design and implement new features based on user feedback
- Identify and fix potential bugs
- Act as a support that helps users to resolve problems

### BrakeValve: Buyer's Guide for Game Players on Steam

Team Leader / Developer

- Design and implement backend data processing workflows
- Design and implement browser extensions

### Hop: Mobile App for Sharing Fun Moments Instantly

iOS Developer

- Design flexible and extensible architectures
- Design user interfaces to match iOS style guides and company impression
- Respond to user feedback and improve the app accordingly

### Car Model Recommendation using Customer Satisfaction

Data Scientist / Developer

- Analyze and interpret data provided by industry partner (Ford)
- Build models that accurately predicts customer satisfaction based on buyer's profile
- Deliver tools that help our industry partner identifying target audience for each car model

### Hsinchu City Teacher's Association's Website

Developer / Administrator

- Maintain existing website: improve performance and usability
- Design and develop content management system for other administrators to use

## SKILLS

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Ruby, Swift, Python, Objective-C, Java, Javascript, Shell Script, HTML/CSS, SQL, Git

## LANGUAGES

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Chinese (Native), English

## PUBLICATION

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Yan-Fu Liu, **Cheng-Yu Hsu** & Shan-Hung Wu. (2015). *Non-Linear Cross-Domain Collaborative Filtering via Hyper-Structure Transfer*. Proceedings of The 32nd International Conference on Machine Learning, 1190–1198.