CHENG-YU HSU

SOFTWARE DEVELOPER

🌐 Taiwan (GMT+8)
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EDUCATION

Bachelor of Computer Science
National Tsing Hua University

Jun 2014

Hsinchu, Taiwan

EXPERIENCE

Research Assistant
National Tsing Hua University

Jul 2014 — Present

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 — Present

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 on developing suitable machine learning models for certain data tasks
- Deliver supplementary lectures covering essentials statistical and mathematical knowledge that is frequently used in machine learning researches

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

Contract Developer
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SELECTED PROJECTS

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 Instant Sharing Fun Moments
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 Recommendation by Predicting Customer Satisfaction with Ford
Data Scientist / Developer
- Analyze and interpret data provided by industry partner
- Build models that accurate predicts customer satisfaction based on buyer's profile
- Deliver tools that helps 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

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

LANGUAGES

Chinese (Native), English

PUBLICATION

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.