Cheng-Han Han

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Education

National Tsing Hua University (JULY 2020 - SEP 2022)

Master of Information Systems and Applications Institute

- GPA 4.3 in total average, 2022 honorary member of the Phi Tau Phi Scholastic Honor Society.
- Maintain Database which contains financial data and web crawler.
- Studied cloud programming course using AWS cloud service
- Studied Service Oriented Architecture course

National Sun Yat-sen University (SEP. 2015 - JUNE 2019)

Bachelor of Information Management

- Presidential award in 104 and 105 first semester
- Web programming lecturer in computer programming club
- Vice chairman of the 23rd information management camp, developed a game website for the camp.

Skills

Programming

- **Programming:** Python, C, C++
- **Web Development:** HTML, CSS, JavaScript, Bootstrap, jQuery, Flask
- **Database:** MySQL, PostgreSQL
- **Tools:** Git, Github flow, GitHub Actions(CI/CD), Docker, Amazon EC2, Heroku, Unix

Language

- **Chinese** (Native)
- **English** (TOEIC 815/990)

Experience

Information Security Lab, Auto trading finance Team, 2020-2022

- Graduation Thesis: Stock selection strategy based on factor ranking method - Taiwan listed stocks as an example
- Use Multichart to develop trading strategies of TAIFEX and NASDAQ futures
- Maintain Database which contains financial data and web crawler deployed by lab

Computer Programming Club, Web Programming Lecturer, 2018

- Taught Javascript, jQuery, and Bootstrap, PHP to freshmen of the department.

23rd Information Management Camp, Vice Chairman, 2017

- Developed a game website served as the main event of the camp.
- Hosted weekly meeting with chairman, planned the schedule of the summer camp, and maintained the online bulletin board.
- Reached over 80 applicants in total, which was the highest in the past three years.

Side Projects

Drink Finding System

A website of beverage recommendations for user to find specific drinks or drinking shops nearby.

- Use **Ruby** as main programming language to build the website, including database migration, writing specs and tests.
- Use **Python** to write crawler to get menu from Ubereat and recommend drink to user based on shop reviews.
- Use **Amazon SQS** to create message-driven microservices to process data concurrently.
- Use **Github** to collaborate with classmate.
- Use **Github Actions** to construct continuous integration.
- Use MVC, DDD and Repository patterns in the software architecture.

Use tools: Ruby, Python(Selenium), AWS, CI/CD

Smart Home

- Use Raspiberry Pi, camera module and **AWS Rekognition** to distinguish visitor and publish message to **AWS SNS**.
- Use **AWS Lambda** to execute the corresponding functions.
- Integrate with **Home Assistant** opensource to control the device like light or air conditioner etc.

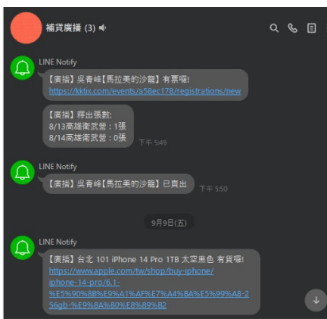**Use tools:** Raspiberry Pi, AWS, Home Assistant

Course Scheduler

A website for assisting course schedule, it will automatically add courses selected by the user to the class schedule.

- Write crawler to crawl the courses of the school's course selection system and stores them into the **MySQL** database.
- Crawl 2000+ courses per semester on average.

Use tools: Bootstrap, jQuery, PHP

Coupon Grabber, Notification bot

Develop bot to automatically get coupon from shopping website, or notify when product is restocked.

- Use **selenium** to get user account's cookie.
- Use anti-captcha to generate google recaptcha token for grabbing coupon.
- Use line notify to inform user when concert tickets or products are restocked.
- About 10 people use this service.

Use tools: Python, Flask, Line Notify