

Ssu Chiu

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EDUCATION

National Chengchi University

- Bachelor of Computer Science (GPA 4.19 / 4.3), Jul. 2020
- Double Major in Digital content & Technologies
- TA experience: Programming 101 (2020 Spring), Computer Programming (2020 Spring)

National Taiwan University

- Master of Networking and Multimedia (GPA 4.11 / 4.3), Jul. 2022
- TA experience: Applied Deep Learning (2022 Spring)

EXPERIENCE

Software Engineer Intern | NCCU Computer Center:

Jul. 2018 – Jun. 2019

- Develop and maintain National Chengchi University's application.
- Including weather (forecast, air quality), YouBike, bus, map, and food.
- Help to adopt Elasticsearch to improve the course search system.

Research Assistant | Chang Lab TW:

Jan 2020 – Jul. 2020

- The Critical Assessment of Protein Function Annotation Algorithms Challenge (CAFA 4).
- Predict the function of a protein from its sequence or structure.
- Aid developing a CNN model, KNN, similarity method.

HiSiri | Ministry of Science and Technology:

Jul. 2019 – Feb. 2020

- Hi-C improve Sequence assembly In Reads Integration.
- Investigate the probability of integrating integer interval and Hi-C information.
- Undergraduate student research program, Ministry of Science and Technology (MOST).

Alexa Prize Taskbot Challenge:

Mar. 2021 – May. 2022

- Skills: Python, AWS, NLU, Transformer, Docker.
- Build an Alexa skill using the Alexa Skills Kit APIs for use in the United States, which assists Alexa users in accomplishing tasks related to cooking and DIY.
- Up to ten teams worldwide will be selected and sponsored by Amazon.

PUBLICATION

SalesBot: Transitioning from Chit-Chat to Task-Oriented Dialogues

Ssu Chiu, Maolin Li, Yen-Ting Lin, Yun-Nung Chen

[60th Annual Meeting of the Association for Computational Linguistics - ACL 2022](#)

Miutsu: NTU's TaskBot for the Alexa Prize

Yen-Ting Lin, Hui-Chi Kuo, Ze-Song Xu, **Ssu Chiu**, Chieh-Chi Hung, Yi-Cheng Chen, Chao-Wei Huang, Yun-Nung Chen

[Alexa Prize TaskBot Challenge](#)

PROJECTS

Careerhack | TSMC X Microsoft

- Anomaly Detection, Labeling with AI, Automated Optical Inspection (AOI).
- Binarize images and build a VGG16, ResNet50 model to detect defective cloth.

Accounting

- Develop an iPad application on Xcode with Swift and SQLite as the database.
- It's an application to deal with accounting management and generate vegetable delivery orders.

I'mpression Stamp

- Backend: Node.js, Pixi.js, JSFeat.
- Build a device with NodeMCU to transport button data to the website deploying on Azure VM.
- Provide an iPad and several buttons for users to design unique paintings.

Bus Tracker

- Backend: ASP.net.
- Process the data fetched from Public Transport Data eXchange (PTX).
- Apply jQuery Ajax to the real-time bus information.

Technologies and Languages

- Programming Languages: **Python**, Ruby, JavaScript, C/C++, Shell Script, Swift
- Deep Learning: **Pytorch**, Transformers, **NLP**, Dialogue
- Web: jQuery, Node.js, Rails, Nginx
- Tools: Sublime, Xcode, ITerm, Vim
- Other Skills: Azure, AWS, Docker, Linux, Processing
- Certification: AZ-900 Microsoft Azure