

Wei-Sheng Wang (Wilson Wang)

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EXPERIENCE

Research Assistant (Part-Time)

Oct. 2017 – Present

National Chengchi University, CLIP Lab

Taipei, Taiwan

- Developed a recommendation algorithm for KKTIX, the online ticketing platform under KKBOX Group
- Designed *Preference-Content Convolution (PCC)* graph learning algorithm and validated it through *Query-Based* experiments
- PCC increase precision by 2.5 times in offline testing and it is deployed and launched in August 2019
- Developed a full-stack recommender system using Django, ReactJS, and Elasticsearch

Server Administration

Aug. 2019 – Present

National Chengchi University, CLIP Lab

Taipei, Taiwan

- Manage server accounts through building NIS server
- Avoid brute-force attack through configuring Fail2ban and sshd_config configurations
- Built a sandbox environment for external data delivery through ChrootDirectory

Cloud Support Engineer Intern

Feb. 2020 – Feb. 2021

Amazon Web Services (AWS)

Taipei, Taiwan

- Improved support engineer working process through building automated scripts
- Implemented multilingual sentences clustering to improve language translation quality
- Cooperate with overseas teams in Seattle
- Technical stacks - JavaScript, GreaseMonkey, DynamoDB, S3

Frontend Developer (Contractor)

Feb. 2020 – May. 2020

PAMO Law Office

Taipei, Taiwan

- Modularize the legacy code to be more maintainable
- Refactor class to function components and Hooks in ReactJS
- Technical stacks - ReactJS, Redux, Create React App, RxJS

Frontend Developer Intern

Aug. 2017 – Jun. 2018

Rytass Corp.

Taipei, Taiwan

- Developed CMS user interface including form validation, image uploader, article lists, etc.
- Developed RWD layout for the client websites
- Collaborate with backend developers to design and implement RESTful API and Graph API
- Technical stacks - ReactJS, Redux, react-apollo, Webpack, Babel

PROJECTS

Work Project

MOST Review Candidate Recommendation | *Django, React, Docker, Elasticsearch*

Jun. 2019 – Jan. 2020

- Developed backend API and user interface for recommendation service
- Designed re-ranking recommendation mechanism that combining keyword-based recommendations and ML-based recommendations

KKTIX Cold Start Recommendation - *project link* | *Python, Graph Embedding*

Oct. 2017 – Feb. 2019

- Developed *Preference-Content Convolution (PCC)* graph learning algorithm and the offline testing experiments
- Developed a full workflow for running data preprocessing, training, testing

Open Source Contributions

commitizen-tools - *project link* | *Python, Poetry, pre-commit*

June 2020 - Present

- A tool to define a standard way of committing rules and communicating them through CLI
- Reinforce the check feature to check whether it conforms to the conventional writing and list the non-conforming ones
- Update to add more unit tests

PyCon TW 2019 Official Website - <i>project link</i> <i>Django, Saas</i>	Feb. 2019 - Sep. 2019
<ul style="list-style-type: none"> Responsible for developing the landing page, navigation bar, ticketing page 	
Warehouse Translation - <i>project link</i>	Sep. 2019 - Feb. 2020
<ul style="list-style-type: none"> Add zh-tw translations to the new versioned PyPI (warehouse) 	
Python Official Documents Translation - <i>project link</i>	June 2018 - Oct. 2018
<ul style="list-style-type: none"> Responsible for translating chapter 9. Classes of the tutorial to zh-tw 	

Others

- exercism/python - Update problem testcases
- pycontw/CCIP-HDP, session-video-publisher - Fix bugs

Side Project

Josix's Blog - <i>project link</i> <i>Gatsby, Netlify</i>	Aug. 2020 - Present
<ul style="list-style-type: none"> Personal tech noting blog built by gatsby and netlify Features include GA tracking, simple SEO configuration, table of contents. Deep dive into tech tools like pyenv, pipx, etc. 	
Online Judge CLI - <i>project link</i> <i>Python, cURL</i>	Sep. 2020
<ul style="list-style-type: none"> Python based CLI that allowing students to upload their homework to the online judge system Features include authentication, uploading, downloading problems from the system 	

COMMUNITY INVOLVEMNET

PyCon Taiwan	Aug. 2019 – Present
<i>Infra Squad Lead</i>	
<ul style="list-style-type: none"> Responsible for organizing team members to deliver tools for improving crew operation process 	
<i>Development Member</i>	
<ul style="list-style-type: none"> Developed official website through using Django and Sass Responsible for developing navigation bar, landing, ticketing page including RWD layout (2019) 	
D4SG - Convenient Kanban for Wastewater Prevention	Jul. 2017 – Jan. 2018
<i>Volunteer</i>	
<ul style="list-style-type: none"> The plan aims to reduce the information gap between the Hsinchu County government, the public, and manufacturers, improve the efficiency of inspections, and promote the self-discipline of various manufacturers through public information. Responsible for crawling the company's financial report and display it in the kanban by using Selenium 	

EDUCATION

National Chengchi University	Taipei, Taiwan
<i>M.S. in Computer Science</i>	Feb.2020 – Present
<ul style="list-style-type: none"> Members in Computational Linguistics and Information Processing Lab (CLIP Lab) Research interests span the areas of information retrieval, recommender systems, natural language processing Related taken courses: Distributed System, Cloud Big Data Service Practices, Web Search and Mining 	
National Chengchi University	Taipei, Taiwan
<i>B.S. in Computer Science and B.A. in Land Economics (Geometry Program)</i>	Sep. 2014 – Feb. 2020
<ul style="list-style-type: none"> Related taken courses: Programming Language, Software Engineering, Database System 	

TECHNICAL SKILLS

Languages: Python, JavaScript, HTML/CSS, Shell Script, C/C++
Libraries and Frameworks: Django, PyTorch, ReactJS, NumPy
Developer Tools: zsh, Git, Docker, AWS, VS Code, ElasticSearch