

Wei-Sheng Wang (Wilson Wang)

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EXPERIENCE

Backend Engineer (Contractor)

May. 2021 – Mar. 2022

Miso Technologies, Inc

San Francisco, California US

- Responsible for maintaining and developing the backend of the recommendations part and the webhook integration of the Miso platform
- Improved the performance of a feature store module based on double array trie and refactor it as a standalone library
- Implemented a webhook service receiving and processing data from Shopify webhook API, then sending them to the data store by using FastAPI and Redis
- Developed a python package template including environment setup, linting, formatting, testing commands, and GitLab CI/CD pipelines for better development experience and code quality

Research Assistant (Contractor)

Oct. 2017 – May. 2021

National Chengchi University, CLIP Lab

Taipei, Taiwan

- Developed recommendation algorithms for KKTIX, the online ticketing platform under KKCompany Group
- Designed *Preference-Content Convolution (PCC)* graph learning algorithm for solving the complete cold start recommendation problem, 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 – May. 2022

National Chengchi University, CLIP Lab

Taipei, Taiwan

- Manage server accounts through NIS server
- Preventing 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, Inc.

Taipei, Taiwan

- Improved support engineer working process through userscripts that interject the working platform with better UI and functionalities
- Implemented multilingual sentences clustering to improve language translation quality
- 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
- Add more unit tests by using pytest

pycontw-frontend - *project link* | *NuxtJS, TailwindCSS* Sep. 2021 - Present

- Implemented about page, landing page of the new website of PyConTW 2021 and PyConAPAC 2022
- Implemented dynamic routes scripts for generating static pages from the data source

Others

- Documentation Localization - Warehouse Translation, Python Official Documents Translation
- exercism/python - Update problem testcases
- pycontw/CCIP-HDP, session-video-publisher - Fix bugs

Side Project

Talk Preview Image Builder - *project link* | *Python, pipenv, typer, python-pptx* Aug. 2021 - Present

- A CLI tool that helps PyConTW members to generate talk preview images automatically from the given background image and speech info

HackMD Archive Worker - *project link* | *Python, pipenv, typer, requests, meilisearch* Aug. 2021 - Present

- A CLI tool that automatically archives HackMD notes to GitHub and classifies them into different years of organization and teams

Online Judge CLI - *project link* | *Python, cURL* Sep. 2020

- Python based CLI that allows students to upload their homework to the online judge system
- Features include authentication, uploading, downloading problems from the system

COMMUNITY INVOLVEMENT

PyCon Taiwan Aug. 2019 – Present

Infra Squad Lead

- Responsible for organizing team members to deliver tools for improving crew operation process

Development Member

- Developed official website through Django and NuxtJS
- Responsible for implementing the interface of the website and code review

EDUCATION

National Chengchi University Taipei, Taiwan

M.S. in Computer Science

Feb.2020 – Present

- Members in Computational Linguistics and Information Processing Lab (CLIP Lab)
- Research interests span the areas of information retrieval, recommender systems, natural language processing

National Chengchi University Taipei, Taiwan

B.S. in Computer Science and B.A. in Land Economics (Geometry Program)

Sep. 2014 – Feb. 2020

TECHNICAL SKILLS

Languages: Python, JavaScript, HTML/CSS, Shell Script

Libraries and Frameworks: Django, PyTorch, ReactJS, NumPy

Developer Tools: zsh, Git, Docker, AWS, VSCode, ElasticSearch