

# Szu-Hsuan Wu

Back-end Engineer

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## SUMMARY

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- An easy-going, detail-oriented, problem-solving, and responsible person.
- 4+ years of working experience in back-end development.
- Familiar with Python, Flask, FastAPI, Node.js, and Express.
- Familiar with Elasticsearch, Redis, and MySQL.
- Experienced with Docker, Docker-compose, GitHub Actions, and CircleCI.
- Experienced with Nginx, Prometheus, Grafana, and Alertmanager.
- Experienced with unit test.
- Experienced with AWS (EC2) and GCP (GCE).
- Experienced with GitLab flow.

## EXPERIENCE

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**Back-end Engineer** **DeepWave Co., Ltd.** Jul. 2020 - Present

Projects: [Member System](#) / [Sovia](#) / [Hullaballoo](#)

- Worked on back-end development, designing backend architecture, using Python (Flask and FastAPI) to build RESTful APIs, and maintaining services.
- Developed anomaly detection systems applied to the factory, which can help the factory to easily monitor whether the machine is abnormal.
- Developed a member system, including user authentication and payment function that integrates Newebpay API and EzPay invoice API.
- Developed multiple AI acoustic analysis systems, including singing voice separation (Sovia), noise cancellation (Hullaballoo), vocal to midi transcription, and singing voice type detection services.
- Refactored music crawler and reduced the crawling time by 17%.
- Built service monitors with Prometheus, Grafana, and Alertmanager.
- Introduced coding guidelines, GitLab flow, and part of CI/CD.

**Research Assistant** **CITI, Academia Sinica** Aug. 2019 - Feb. 2020

- Worked on full-stack development, using Node.js/Express to build RESTful APIs, and maintaining services.
- Developed a management system, monitoring the amount of data crawled by the crawler, and managing whitelist and blacklist of news resources.
- Developed a search system that integrates many social media, such as Facebook, PTT, Dcard, News, FactCheck, and MyGoPen. It also shows the sensational score of title and the similarity between title and content to help users judge the confidence of the article.

**Software Engineer****Taiwin Co., Ltd.**

Oct. 2017 - Jul. 2019

Project: [LAMP](#)

- Worked on full-stack development, using Node.js/Express to build RESTful APIs, and maintaining services.
- Developed a social media search system that integrates many social media, such as Facebook, Instagram, PTT, Dcard, YouTube, and News. It can help the users to quickly catch the most popular articles or the latest articles.
- Trained word2vec model and developed a related words API, searching for related words, and obtaining the similarity between two words.
- As a contact person for some projects, discuss requirements and specifications with cooperating customers.

**Summer Intern****Industrial Technology Research Institute**

Jul. 2014 - Aug. 2014

- Developed an internal maintenance order statistics system to assist in order management and understand the manpower and time consumed by maintenance.

**EDUCATION**

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**National Chung Cheng University, Taiwan**

Sep. 2015 - Jul. 2017

M.S. Computer Science and Information Engineering

**Chang Gung University, Taiwan**

Sep. 2011 - Jun. 2015

B.S. Computer Science and Information Engineering

**SKILLS**

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- Front-end: HTML, CSS, JavaScript (ES6+), jQuery
- Back-end: Python, Flask, FastAPI, Node.js, Express, C
- Database: Elasticsearch, Redis, MySQL, MongoDB
- Test framework: pytest, Mocha
- Deployment: Docker, Docker-compose, GitHub Actions, CircleCI
- Cloud service: AWS (EC2), GCP (GCE)
- Others: Git, Linux (Ubuntu), Shell script, Nginx, Prometheus, Grafana, Alertmanager, ELK

**LANGUAGES**

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Chinese (Native)

English