

# Chia-Yin Wu

DATA ENGINEER · SOFTWARE ENGINEER

Kaohsiung City, Taiwan

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## Summary

Currently as data engineer at Foxconn tech group. With 3+ years experience specializing in the data engineering, data architecture, and back-end development. Super geek who loves Python, data engineering and macOS and enjoys to customize all of the development environment. Interested in devising a better problem-solving method for challenging tasks, and learning new technologies and tools if the need arises.

## Skills

<b>Programming</b>	Python, SQL
<b>Backend</b>	FastAPI, Flask, PostgreSQL, MongoDB, Redis, Elasticsearch, RabbitMQ, Celery, Nginx, Memcached
<b>Data Pipeline/Big Data</b>	Kafka, Hadoop, Spark(PySpark), Prefect, Impala, Sqoop, Hive, Kudu
<b>DevOps</b>	Docker, GCP, Linux(Ubuntu, CentOS), Drone CI, Gitlab, Supervisor, Shell Scripting
<b>Web crawler</b>	Scrapy, Scrapy-splash, Beautiful Soup, Selenium
<b>Languages</b>	Chinese, English (ToEIC 790)

## Experience

### Foxconn Technology Group

Kaohsiung, Taiwan

DATA ENGINEER

Aug. 2019 - Now

- Designed, developed and deployed the overall asynchronous architecture in pcb printer parameter system via Python, Celery, RabbitMQ, Docker, Supervisor, PostgreSQL.
- Design and developed the overall backend analytical job architecture and RESTful API services with Docker-Compose, RabbitMQ, Flask, PostgreSQL in panel data analysis system.
- Refactored the code of Blind-Search service to improve reusability and flexibility in panel data analysis system.
- Built fully automated CI/CD pipelines on Drone CI for data platform project with docker-compose.
- Surveyed massive big data tech stacks, implemented and deployed CDH infrastructure including HDFS, Impala, Kudu, Zookeeper.
- Designed the overall tech architecture and leveraged suitable tech stack in data platform project.
- Implemented core pipeline running sort algorithm with Python, MongoDB in data platform project.
- Designed and developed many RESTful APIs via FastAPI, Uvicorn, Gunicorn, also designed schema for MongoDB in data platform project.
- Actively attended internal tech sharing, talked about clean code guide, virtual environment and package management experience in Python.
- Actively involved to edit Python coding style guide reference Google style guide.
- Wrote the SQL commands for web team to integrate the API.

### Pi Software Corp.

Kaohsiung, Taiwan

DATA ENGINEER

Mar. 2017 - July. 2019

- Built and developed streaming and batch data pipeline of <https://zi.media> (Alexa Taiwan top 50 site) via Kafka, Flask, MongoDB, Redis, Memcached, Elasticsearch.
- Developed and deployed RESTful APIs to handle article data(daily request around 1 million times) in zi.media with Nginx, Uwsgi, Flask, Redis, MongoDB.
- Designed and developed nlp services including article keyword extraction(tf-idf), content based recommendations(cosine-similarity), text classification(fasttext), topic model (LDA).
- Developed and maintained more than 50 web crawlers and optimized the company's internal distributed crawler system with Kafka, Scrapy, Redis and OrangePi.
- Developed and deployed ETL system to process company and interview data with calculating ranking score for website (<https://interview.tw>), and use the RFM model to improve the popular ranking algorithm with Elasticsearch and MongoDB.
- Developed and deployed salary data analysis report with ETL job for website (<https://salary.tw>) with Pandas, MongoDB, Numpy.
- Developed and deployed finance data ETL system and stock news robot for website (<https://www.moneybar.com.tw/>).

### Taiwan Hopax Chemicals. Mfg. Co., Ltd.

Kaohsiung, Taiwan

PROCUREMENT SPECIALIST

July. 2014 - Mar. 2017

- Responsible for the company's major chemical raw materials sourcing.
- Responsible for cost reduction and supplier management.
- Developed the price prediction model of styrene and acrylic acid, using R language.

## Education

## **NCHU(National Chung Hsing University)**

MASTER OF BUSINESS ADMINISTRATION

- Class Rank: 6th/28 .
- Master thesis - Product Line Design of Conspicuous Goods in a Distribution Channel.

## **National Kaohsiung University of Science and Technology**

B.A. IN INFORMATION MANAGEMENT

*Taichung, TAIWAN*

*Sep. 2011 - June. 2013*

*Kaohsiung, TAIWAN*

*Sep. 2006 - June. 2011*