Wei-Yu "Will" Liao

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https://github.com/wyliao76
https://fortunedgalab.xyz/httptest

WORK EXPERIENCE

Data Engineer Hewlett-Packard Inc, HPI   July 2022 - Feb 2024

- Built **ETL data pipeline** and data lake via **AWS Lambda** and **Step function**
- Built a preview backend server via Python **FastAPI** for Amundsen.io preview

Skills: Python, Typescript, AWS-CDK, FastAPI, Docker, Airflow, Athena, Elasticsearch

Senior Software Developer Hewlett-Packard Inc,HPI   June 2020 - June 2022

- **Saved A Failed Project** and turned it into a successful one (version 2.0)
- Organized a team of 4 to 6, interviewed and trained team members
- Devised a **Realistic Plan** and **Executed** it **Successfully** for the 2.0 version in **9 months**

Skills: Node.js, React.js, MongoDB, Redis, Docker, RabbitMQ, AWS, SSH, Powershell

Software Developer - Node.js Nextlink Technology   June 2019 - June 2020

- Built all backend APIs using Lambda, AWS API Gateway, and Claudia
- Increased the efficiency of the PDF generation feature by more than 50 times

Node.js Engineer Batmobile   Dec 2018 - June 2019

- Handled a social media platform with 450,000 users
- Used microservices to stabilize critical features

PROJECTS

Chat Project Data communication option, CST

- Program a server and server starter in C with **Finite State Machine** and **Binary Protocol**
- Compile on **Linux, MacOS, FreeBSD** with **GCC** and **Clang**

Skills: C, Sockets, TCP, binary protocol, Multi-threading, I/O multiplexing, ndbm, POSIX API

Adv. HTTP server Data communication option, CST

- **Event loop. Monitor, Workers** architecture, **Dynamic Library** loading

Skills: C, Sockets, TCP, HTTP, Multi-processing, I/O multiplexing, POSIX API

EDUCATION

Computer Systems Technology | BCIT   Graduated in 2025

Associate in Science | Shoreline Community College   Graduated in 2017

B.Sc. in Chemistry | Fu-Jen University   Graduated in 2012

SKILLS

- **JavaScript, Python, Java, C**, Express.js, FastAPI
- Git, CI/CD pipeline, Github Actions, TDD, Microservice Architecture
- MySQL, PostgreSQL, MSSQL, MongoDB, Redis
- AWS, Lambda, ECS, RDS, ETL pipeline, Airflow
- Docker, RabbitMQ, Authentication/Authorization
- TCP, UDP, text / binary protocol, POSIX API, Socket, IPC
- LLM integration, NLP to SQL, Prompt engineering
- Fluent in **English** and native **Mandarin** speaker

CERTIFICATES

- Professional Scrum Master I | Scrum.org   2022