

# ChuFei Wu

SOFTWARE ENGINEER · SERVICE DEVELOPER

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df.is-a.dev

## Experienced Skills

**DevOps** Container, Jenkins, Git, k8s & etc. **Cloud Platform** VPSs, Oracle Cloud, AWS/Azure/GCP, Fly.io  
**Framework** SpringBoot, Django, Pact, RabbitMQ, Kafka, etc. **Database** MongoDB, MariaDB, MySQL, Redis, PostgreSQL  
**Programming** Java, Golang, Python, Shell, C, JavaScript, Solidity **SQA** Postman, SideeX, Insomnia, Junit  
**Operation System** Various Linux-distro, MacOS, Esxi, Unraid, TrueNAS **Language** Chinese, Taiwanese  
English (CEFR B1)  
**Misc** iOS/Android/IoT/Embedded developing, Network/Homelab/NAS  
Design, ITU Amateur Radio Operator Class 3

## Education

Computer Science and Engineering, National Taiwan Ocean University

Keelung, Taiwan

M.S./B.S degree

Sep, 2016 - Aug, 2022

- Programing coursework: Algorithm & Data Structures, ML/DL, NLP, IoT, Network, Information Retrieval, **Software Engineering (Cert.)**, iOS/Android developing, Software Project Management, etc.
- Leading and managing several team projects to achieve the goal on time, achieving positive reviews in the most courses.

## Projects & Publications

### Composite Contract Testing Service

- CCTS is a testing service with the goal of minimizing the tester loading cost in Event-driven system testing. With combining logs and State Model to determine the behavior in target system.
- It's validated to measure the performance and the result shows the CCTS does detect the potential executing failures and some common errors while testing.
- Tech stack: SpringBoot, MongoDB, RabbitMQ, Pact, Microservices, Container, shell, etc. L.O.C. 8k+
- Publications:
  - 29th Asia-Pacific Software Engineering Conference, **APSEC 2022** Virtual, Japan Dec. 2022
  - Best Paper**, 18th Taiwan Conference on Software Engineering, TCSE 2022 Taipei, Taiwan Jun. 2022

### Personal Data Authorization System & Personal Data Valuation and Payment System.

- For solving the authorization and valuation issues from sharing of mechanism with Green Button (U.S. digital energy data sharing standard). This provide a trust mechanism to ensure the legality and security of personal data and a thrid-party finance service for end-users to sell their data and withdraw from platform. This is designed with event-driven microservice to improve reliability and throughput. My contributions are in logging, payment, blockchain and third-party fintech.
- Delivering whole solution including source product, deploying, CI/CD chain, infrastructure and manual to our customer on Azure Kubernetes Service. The tech stack is involving Springboot, Angular, Vue, Sideex, Node.js, express, MongoDB, k8s, Jenkins, Citizen Digital Certificate (IC-card), etc. L.O.C. 40k+
- Publications:
  - 2021 National Computer Symposium, NCS 2021 Taichung, Taiwan Dec. 2021
  - 2020 International Computer Symposium, ICS 2020 Tainan, Taiwan Dec. 2020

### Pull Request, flipperdevices/flipperzero-firmware in Github

11.8K starts

- This is an popular open-source multi-tool embedded device with RFID, NFC, GPIO and sub-GHZ radio support to let user construct their own creative scenario.
- Correcting the command and instruction fail in firmware building progress. Accepted changes by core team member.

### HomeLab

HW/SW Integrity

- Compute and Storage Separation. Integrated by virtual machine and container with high availability.
- Integrating 30+ services including private cloud storage, DNS, monitoring, multimedia service, cross-platform album, Home Automation, etc.
- Flex & Reliable Software Defined Network.

### HideReplier

Spring/DC bot

- An containerized, cloud-powered and automatic bot to dealt with anonymous content publish issue in Public discord server. A personal side project for classmates in university, managing over 3.5+ messages to date.

## Work Experience

Intern of Software Engineer, Industrial Technology Research Institute (ITRI)

Hsinchu, Taiwan Jul. 2021 - Dec. 2021

- Researching, designing, and building a personal data authorization system with reliability and throughput. Including decentralized, micro-service, Event-driven Architecture, CI/CD chain, security, block-chain and third-party finance system. Collaborating and deliver two projects, several tasks in time with whole tool-chain and documents.

MIS, Ming-Chyuan Ltd.

Tainan, Taiwan Jul. 2012 - present

- To solve the manufacturing problems in factory of CNC.
- Improving and maintaining the digital system from legacy products to modern architecture solution. Up to 99% Availability.

Teaching Assistant, National Taiwan Ocean University

- To help University escalate legacy content to new content management system and realize assigned customization with requirements.
- Help professors to design and arrange the lessons.