

# ChuFei Wu

SOFTWARE ENGINEER · WEB SERVICE DEVELOPER

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## Experienced Skills

**DevOps** Container, Jenkins, Git      **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, Python, Shell, C, JavaScript, Solidity      **SQA** Postman, SideeX, Insomnia, Junit  
**Operation System** Various Linux-distro, Mac OS, Esxi, Unraid, TrueNAS  
**Misc** IOS/Android/IoT/Embedded developing, **Language** Chinese/Taiwanese, English (CEFR B1)  
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.
- CCTS combines logs and State Model to determine the target system behavior. In order to remain the flexibility of data structure. We use MongoDB as the data persistence solution because the plenty resources and widely used.
- It's validated to measure the performance and the result shows the CCTS does detects 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.

- The systems are constructed for solving the authorization and valuation issues from sharing of mechanism with Green Button (U.S. digital energy data sharing standard) by laboratory and ITRI. The systems provide a trust mechanism to ensure the legality and security of personal data and a third-party finance service for end-users to sell their data and withdraw from platform. This distributed system is designed with event-driven microservice to improve reliability and throughput. My contribution is 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

8.9K 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

DC bot

- An containerized, cloud-powered and automatic bot to dealt with anonymous content publish issue in Public discord server.
- It's 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.