

ChuFei Wu

SOFTWARE ENGINEER · WEB SERVICE DEVELOPER

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Experienced Skills

DevOps	Docker, Jenkins, Git	Cloud Platform	Digital Ocean, Oracle Cloud, AWS, Azure, Fly.io
Framework	SpringBoot, Django, Pact, RabbitMQ, Kafka	Database	MongoDB, MariaDB, MySQL, Redis, PostgreSQL
Programming	Java, Python, C, JavaScript, Shell, Solidity	SQA	Postman, Insomnia, Junit, SideeX
Operation System	Various Linux-distro, Mac OS, Esxi, Unraid, TrueNAS	License	ITU Amateur Radio Operator Class 3
Misc	IOS/Android Developing, IoT/Embedded developing, Network/Homelab/NAS Design		

Education

National Taiwan Ocean University

Keelung, Taiwan

M.S./B.S IN COMPUTER SCIENCE AND ENGINEERING

Sep, 2016 - Aug, 2022

- Collaborating with team to build whole project from scratch. Including Machine-Learning, NLP project and web-service application. Being a project manager and SWE leading the project.
- Designing and managing infrastructure in laboratory. Including Networking, Server and Service design.
- Certification of Software Engineering Program. Such as Project management, System Design, Software Quality Assurance, Agile development. From Software requirement extraction to delivery and maintenance.

Project & Publish

29th Asia-Pacific Software Engineering Conference, APSEC 2022

Virtual, Japan

PRESENTER FOR <TESTING FOR EVENT-DRIVEN MICROSERVICES BASED ON CONSUMER-DRIVEN CONTRACTS AND STATE

Dec. 2022

MODELS>. IEEE XPLORE PUBLISHED

- This is the final result of CCTS. CCTS is a testing service between integrated test and unit test in testing pyramid.
- CCTS combine logs and State model to determine the target system behavior. In order to remain the flexibility of data structure, NoSQL is the better database type. We use MongoDB as the data persistence solution because the plenty resources and widely used.
- We validate this service to measure if it works. The result shows the CCTS does detects the potential executing failures and some common errors while testing.

Best Paper, 18th Taiwan Conference on Software Engineering, TCSE 2022

Taipei

PRESENTER FOR <COMPOSITE CONTRACT TESTING MECHANISM FOR EVENT-DRIVEN MICROSERVICES>.

Jun. 2022

- Event-driven microservice is a new software architecture but the testing is hard due to asynchronization. We proposed a new test process to test an EDA based system.
- We use state model to describe how a service interact with other services and proposed a method to effectively test an Event-driven microservice system. It reduces the efforts for testers by detecting potential failure automatically.

2021 National Computer Symposium, NCS 2021

TaiChung, Taiwan

PRESENTER FOR <DESIGN FOR PERSONAL DATA AUTHORIZATION SYSTEM AND TWO-WAY PAYMENT PLATFORM>.

Dec. 2021

- The PDVPS provides a third-party finance service for PDAS. It's designed for end-users to sell their data and withdraw from platform. This system is designed with event-driven microservice to improve reliability and throughput.
- PDVPS is a distributed point and finance system, that's how to ensure data integrity is a critical issue. We deploy MongoDB Replica Set in k8s platform as data persistence. Also, we use mongoDB Aggregation to query necessary data.

2020 International Computer Symposium, ICS 2020

Tainan, Taiwan

PRESENTER FOR <PDAS: A DIGITAL-SIGNATURE-BASED AUTHORIZATION PLATFORM FOR DIGITAL PERSONAL DATA>. IEEE

Dec. 2020

XPLORE PUBLISHED.

- For the "Smart Disclosure" and "Green Button" project which is from US-government. Make users authorize their data safely and conveniently with undeniable legal contract.
- We Proposed the PDAS for digital personal data authorization, a service support Citizen Digital Certificat (IC-card) signature encrypt/decrypt with legal contracts and public block-chain for validation.

Work Experience

Industrial Technology Research Institute ,ITRI

Hsinchu, Taiwan

INTERN OF SOFTWARE ENGINEER

Jul. 2021 - Dec. 2021

- Researching, designing, and building a personal data authorization system with reliability and throughput. Including decentralized, microservice, Event-driven architecture, CI/CD chain, security, block-chain and third-party finance system.