

WenChih Lo

SOFTWARE ENGINEER

☎ (+886) 917-740-659 | ✉ as821012@gmail.com | 📱 lowc1012 | 🌐 lowc1012

Summary

Current software engineer at Chunghwa Telecom and committer at Apache Software Foundation. Have 3+ years experience specializing in web development and open-source technology. I love learning something new and keen on contributing to open-source softwares. Interested in Big Data, Distributed Systems, Machine Learning and MLOps. Right now, I am learning about Java (Spring), Go, docker, Kubernetes ecosystem and ML systems.

Education

National Cheng Kung University

Tainan, Taiwan

M.S. IN COMPUTER SCIENCE AND INFORMATION ENGINEERING

Sept. 2019 - Aug. 2021

- Distributed System Lab, Thesis advisor: Prof. Hung-Chang Hsiao, GPA: 3.88/4.0
- Thesis title: Enabling Artifact Storage in Machine Learning Pipelines to Boost System-Wide Performance: The Case of Apache Submarine

Tamkang University

New Taipei, Taiwan

B.S. IN COMPUTER SCIENCE AND INFORMATION ENGINEERING

Sept. 2012 - Jun. 2016

- Senior project: A trip planning APP, Advisor: Prof. Chien-Chang Chen

Skills

Languages	Java, Go, JavaScript, PHP
Back-end	Spring Boot, Jersey, MyBatis, REST API
Front-end	HTML5, jQuery, AJAX, Bootstrap
Databases	MySQL, MS SQL server, Redis, MinIO
SDLC	Git, JUnit, Ginkgo, Maven, Argo, Helm, Ansible, Jira
Virtualization	Docker, Kubernetes
Cloud	AWS (EC2, S3), Azure (Event Hubs)

Professional Experience

Chunghwa Telecom Co., Ltd.

Taipei, Taiwan

SOFTWARE ENGINEER

Sept. 2021 - Present

- Designed RESTful APIs integrated with Google Reseller API (google-api-go-client) to resell Google Workspace.
- Working on transferring telemetry from an environmental management system (written in Java) to Azure Event Hubs.
- Working on introducing an IT automation tool (Ansible) to reduce repetitive tasks for operations team.

Shop123 Network Technology Inc.

Taipei, Taiwan

SOFTWARE ENGINEER

Jun. 2018 - Oct. 2018

- Developed an online store platform using PHP MVC framework (Yii), Vanilla JS, jQuery and Bootstrap.
- Implemented factory method pattern for creating widgets which rendering inconcrete view objects.
- Designed database schema (MariaDB) and RESTful APIs.

SunFun Info Co., Ltd.

Taipei, Taiwan

WEB DEVELOPER

Jul. 2016 - May. 2018

- Developed a matchmaking web application using PHP, Vanilla JS, jQuery and Bootstrap.
- Integrated E.SUN BANK cash management service (e-Collection) to receive payments.
- Integrated Google Calendar, URL shorten API and Facebook Graph API for activity sign-up and member registration.
- Migrated codebase from Yii PHP framework to pure PHP.

Projects

Apache Software Foundation, YuniKorn

CONTRIBUTOR

Dec. 2021 - Present

- YuniKorn is a standalone resource scheduler for K8s, that empowers to run large-scale batch jobs and services on a multi-tenancy K8s cluster. I added e2e test for admission controller to increase test coverage. Now I am working on some issues about improving the stability for YuniKorn scheduler.

Apache Software Foundation, Submarine

COMMITTER

Oct. 2020 - Present

- Enabled Submarine to run distributed MXNet jobs on Hadoop YARN via an open-source project called TonY.
- Integrated Jupyter notebook into Submarine on K8s and enabled users to manage their own notebook instances via RESTful APIs.
- Deployed Traefik ingress controller on K8s cluster to manage external access to the services in Submarine. -
- Analyzed the demand of data scientists on Machine Learning pipelines.

Presentation

Conference for Open Source Coders, Users and Promoters, COSCUP

[Online](#)

PRESENTER FOR <INTRODUCTION TO APACHE SUBMARINE>

Aug. 2021

- Introduced to MLOps and the difference between DevOps.
- Introduced to Apache Submarine which is a cloud-native ML platform makes data scientists focus on models and run ML workloads easily in distributed environment.