

WenChih Lo

SOFTWARE ENGINEER

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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

DevOps Github, Docker, Kubernetes, Helm, Argo, Vagrant, Ansible

Back-end Jersey, MyBatis, Spring boot, RESTful API, RDBMS

Front-end HTML5, jQuery, AJAX, Bootstrap

Programming Java, Go, SQL, JavaScript, PHP

Tools Git, Jira, Vim, Idea, Goland

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.