

Yu-Chen Lin

SOFTWARE ENGINEER

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Summary

Software engineer experienced in building high scalability storage gateway which can on-premises access to virtually unlimited cloud storage. I am also experienced in building reliable and flexible virtualization infrastructure solutions. In my free time, I enjoy joining open source community to help others. In the past several years I've contributed to many famous open source projects, including qemu, edk2, scrcpy, etc.

Work Experience

Synology

New Taipei City, Taiwan

SENIOR PRODUCT DEVELOPER

Jan. 2020 - Present

- Designed a secure login and access flow between Synology Hybrid Share client and Synology C2 Cloud service.
- Designed and implemented an overall service architecture and event pipelines of Synology Hybrid Share client that supports event dependency with flexibility and efficiency in C++.
- Built fully automated CI pipelines for Synology Hybrid Share client using Synology automated testing framework to ensure the robustness of the software.
- Designed and implemented public SDK of Synology Hybrid Share client to integrate Synology software products.
- Designed and implemented storage throttle policy to reach the goal of uninterrupted file transmission in Synology Hybrid Share client.
- Designed and implemented data and metadata encryption schemes in Synology Hybrid Share to ensure nearly zero knowledge on the server-side which can protect the privacy of the user.
- Performance tuning in latency and throughput in Synology Hybrid Share.
- Be a mentor to help new members finish their tasks and pick up the necessary knowledge.

Synology

New Taipei City, Taiwan

PRODUCT DEVELOPER

Sep. 2016 - Jan. 2020

- Designed and implemented Synology Virtual DSM license system.
- Modify Synology Demo Site Service to integrated Synology Virtual DSM.
- Designed and implemented Virtual Machine Manager public API.
- Improved the performance of importing/exporting VM in Synology Virtual Machine Manager by modifying QEMU. We save 48% time in importing and 38% time in exporting. It also reduces the extra space requirement.
- Improved the performance of the Synology automated testing framework by about 9% without modifying CI testing code by letting it be able to run TestSuite parallelly.

Potentia

Taipei City, Taiwan

SOFTWARE ENGINEER INTERN

April. 2016 - July. 2016

- We built a simple chat bot by using Hubot. I'm responsible for surveying and constructing a Hubot environment which can be simply deployed.

ITRI

Hsinchu City, Taiwan

SOFTWARE ENGINEER SUMMER INTERN

July. 2015 - Aug. 2015

- We built a simple song recommender system. I'm responsible for measuring the distance between each songs in this project.

Presentation

Synology Dev Insight

New Taipei City, Taiwan

PRESENTER FOR <USE SYNOLOGY HYBRID SHARE TO STORE BIG-DATA IN NAS>

Oct. 2020

- Introduced the hybrid cloud architecture which is the modern way to handle the Big-Data with high scalability.
- Introduced how does Synology Hybrid Share expand the storage from NAS to Synology C2 cloud service.

Education

National Taiwan University

Taipei City, Taiwan

M.S. IN DSP GROUP, CMLAB, COMPUTER SCIENCE AND INFORMATION ENGINEERING

July. 2014 - June. 2016

National Chung Hsing University

Taichung City, Taiwan

B.S. IN APPLIED MATHEMATICS

Sep. 2010 - June. 2014