

Shao-Fu Chen 陳少甫

SYSTEM TEAM LEADER IN NYCU CSIT

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EDUCATION

National Yang Ming Chiao Tung University

Institute of Computer Science and Engineering

MASTER OF SCIENCE

Aug. 2022 - Estimate 2024

National Yang Ming Chiao Tung University

Department of Computer Science

BACHELOR OF SCIENCE

Aug. 2018 - Jul. 2022

SKILLS

PROGRAMMING LANGUAGE

Rust • C • Bash • C++ • C# • Python • Javascript • Jsonnet

TECHNOLOGIES

- Kubernetes
- Linux
- Git
- Ansible
- OpenSearch
- Flux CD
- Dockerfile
- GitLab CI
- GitHub Actions
- Prometheus
- Prometheus Operator
- Thanos

CONCEPTS

- High Availability
- Object-Oriented Programming
- Container
- Operating System
- Infrastructure as Code
- DevOps
- Monitoring
- Public Key Infrastructure

LANGUAGES

- Mandarin: Native
- English: Advanced

EXPERIENCE

Information Technology Center

INFRASTRUCTURE ENGINEER (PART-TIME)

Department of CS, NYCU

May. 2020 - Estimate 2024

- **In charge of the system team leader.**
- **Build logs management system with OpenSearch, Vector, and Fluent Bit.**
Write Ansible playbook to automate the deploy process, and to automatically rolling upgrade the cluster to prevent downtime.
- **Construct metrics monitoring system with Prometheus, Thanos, and Grafana.**
In order to monitor multiple Kubernetes cluster, introducing Thanos to provide the ability to query across different cluster and long term metric storage.
- **Redesign Kubernetes IaC with Flux CD and Ansible.**
Redesign the deploy process and introduce Flux CD to achieve intuitive GitOps process, which makes us to easily manage multiple Kubernetes cluster instances.
- Design IaC for monitoring mixins with Jsonnet and Flux CD OCI artifacts.
- Manage high availability OpenLDAP cluster.
- Write Ansible playbook to do CI/CD for complex Nginx configuration files.

PERSONAL PROJECT

genetlink

Sep. 2021

CONTRIBUTOR

 <https://github.com/rust-netlink/genetlink>

- Contribute the whole genetlink protocol implementation to the rust-netlink project.
- Along with another 2 crates: `netlink-packet-generic`, `netlink-packet-wireguard`, which enable Rust program to operate WireGuard tunnel without the need to depend on C library.

rust-osshkeys

Feb. 2020

MAINTAINER

 <https://github.com/Leo1003/rust-osshkeys>

- Build a Rust library for accessing OpenSSH key in different formats. Makes it possible to use, convert OpenSSH keys easily with Rust programs.

cjail

Feb. 2018

MAINTAINER

 <https://github.com/Leo1003/cjail>

- A container jail to run process in an isolated environment. Learned a lot while working on this project, including Linux namespace, cgroup, rlimits, signals, etc.