

Eric Huang

Site Reliability Engineer

Certified Kubernetes Administrator, dedicated software engineer, persistent learner, and enthusiastic open source contributor. Skilled in automation of system administration, operation, monitoring, and cloud-native solution such as Kubernetes and Containerization. Confident in self-learning, large-scale and multi-repo code tracing.

Work Experience

Site Reliability Engineer *Engineering Dept., LINE Taiwan Limited*

Dec. 2022 – Present

Taipei, Taiwan

- Co-developed, troubleshooted, and wrote acceptance tests for internal Terraform provider terda in **transnational cooperation**.
- Extended terraform provider terda to terraformer, which lead to greatly help existing **Infrastructure to Code**.
- Pioneer of adopting Terraform, wrote Terraform modules in LINE Taiwan to import/deploy internal infra achieving **80%** terraform managed resource.
- Designed and implemented slack-based workflow automation framework to greatly improve operational cost and reduce manual error.

Senior Engineer

Intelligent Banking Division, E.SUN bank

May 2021 – Dec. 2022

Taipei, Taiwan

- Designed & built up a robust monitoring/alerting system that collect **15+** GB metrics per day across **100+** servers.
- Experienced in Kubernetes administration & cluster and service migration for **8** cluster (**60+** nodes) with **95%** & **99%** SLA.
- Adopted automation tool to construct **production-grade** and **GPU-accelerated** k8s cluster, and contributed to upstream Kubescape & backported to existing playbook.
- Developed tools for automating process of daily routine, config management, app deployment, system validation task, which lead to effectively reduce operational costs.

Engineer

Computer Integration Manufacturer, tsmc

Oct 2020 – Jan 2021

Hsinchu, Taiwan

Projects

Rust Playground with WASM frontend rendering

- Renderr and display Web Assembly from compiled Rust code on website.
- Support both Rust Playground (React) and mdBook (native JS)

Court Reservation CLI

- CLI program for court reservation in the concurrency way to avoided manual clicking on APP.
- Captured HTTP packets from Wi-Fi, followed reservation procedure and implemented in Rust

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Skills

Programing

Python • Golang • C • Rust • Typst

Technologies

Kubernetes • Docker • Nvidia Cloud-Native tech • Linux SysAdmin • TCP/IP • Wireshark • Prometheus • Loki

IaC, CI/CD

Ansible • Github Actions • Terraform

Language

Chinese • English

Education

MEng

Data Science

2018 – 2020

National Chiao Tung Univ.

BSc

Computer Science

2014 – 2018

Yuan Ze Univ.

Slides & Talks

- The Journey to the Kubernetes Networking
- The Journey to the Kubernetes metrics
- Auto Differentiation
- Buddy System

Contributions

Reduce redundant calculation

[pytorch](#), [jax](#), [autograd](#)

Support kubeadm patch

[kubespray](#)

Bug reporting

[vscode-python](#)

Awards

- Certified Kubernetes Administrator
- Arctic Code Vault Contributor