

# Eric Huang

## Senior Site Reliability Engineer

Certified Kubernetes Administrator, open-source enthusiast, and detail-oriented software engineer with expertise in automation, observability, and cloud-native solutions. Skilled in problem-solving and system optimization, aiming to enhance reliability, efficiency, and scalability.

## Work Experience

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

Dec 2022 – Present

Taipei, Taiwan

- Optimized log collection pipelines and tuned the self-hosted Loki cluster, **eliminating object storage overhead and reducing costs by 70%, while achieving a 3x increase in log ingestion performance.**
- Co-maintained the organization-wide internal Terraform provider Terda and its community as part of a volunteer group. Pioneered Terda adoption at LINE Taiwan and actively advocated for Terraform usage.
- Implemented a Grafana Alloy gateway to distribute large volume client-side telemetry data sent by Faro SDK, enabling real user monitoring (RUM) and correlating frontend apps with existing observability solutions.
- Developed kustomize plugin for managing secrets in the internal KMS and secret management systems, enhancing security and compliance.
- Developed a Go SDK to wrap the successor private cloud API post-LY merger, leveraging OpenAPI schema for automatic code generation.
- Created automation tools, including a Slack workflow automation framework and GitHub Actions, to improve operational efficiency and quality.
- Designed and implemented an internal infrastructure cost calculator and dashboards, providing spending visibility and enabling cost optimization.

### Senior Engineer *Intelligent Banking Division, E.SUN Bank*

May 2021 – Dec 2022

Taipei, Taiwan

- Designed and built a robust monitoring/alerting system that collected **15+ GB** of metrics daily across **100+ servers**.
- Managed Kubernetes administration and migration for **8 clusters (60+ nodes)** with **95%** and **99%** SLA.
- Adopted automation tools to construct **production-grade** and **GPU-accelerated** Kubernetes clusters, contributing to upstream Kubespray and backporting to existing playbooks.
- Developed tools to automate daily routines, configuration management, application deployment, and system validation tasks, significantly reducing operational costs.





## Projects

### Rust Playground with WASM

- Delivered a full-stack solution for the Rust Playground, enabling interactive WebAssembly rendering in the browser and integrated it into mdBook.

### Court Reserver

- Developed a Rust CLI program for Taipei Metropolitan court reservations, enabling concurrent reservations to avoid manual operations on apps.

 [Chen-Yi Huang](#)  
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## Skills

### Programming

Python • Go • Rust

### Technologies

Kubernetes • Containerization • Nvidia  
Cloud-Native Tech • Linux SysAdmin •  
TCP/IP • Observability • ArgoCD

### IaC, CI/CD

GitHub Actions • Terraform • Ansible

## Education

### MEng

*Data Science*

2018 – 2020

National Chiao Tung Univ.

### BSc

*Computer Science*

2014 – 2018


Yuan Ze Univ.

## Talks & Articles


- Grafana Alloy Best Practice @ COSCUP 2024,
- The Journey to the Kubernetes metrics @ K8s summit 2021,
- [transl.] Terraform for Verda - A journey of Infrastructure as Code for our private cloud
- The Journey to the Kubernetes Networking
- Auto Differentiation
- Buddy System

## Contributions

### Enhanced VRL Functions and Vector Components

 [vector.dev/vrl](https://vector.dev/vrl), [vector.dev/vector](https://vector.dev/vector)

### Reduced Redundant Calculations in Backpropagation

 [pytorch/pytorch](https://pytorch/pytorch), [jax-ml/jax](https://jax-ml/jax)

### Fixed Low-Level Golang Map Traversal in eBPF

 [grafana.com/beyla](https://grafana.com/beyla)