

# 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

### Sr. Site Reliability Engineer

*Engineering Dept., LINE Taiwan*

📅 Sep 2025 – Present

📍 Taipei, Taiwan

- Developed next-generation Terraform provider for the successor private cloud platform, enabling seamless infrastructure management.
- Developed Kustomize and ArgoCD plugin for managing secrets in the internal KMS and secret manager systems, enhancing security and compliance.
- Developed a Go SDK to encapsulate almost all of the successor private cloud platform API, leveraging OpenAPI schema for automatic code generation, ensuring maintainability, unified log formatting, and a client-agnostic design.

### Site Reliability Engineer

*Engineering Dept., LINE Taiwan*

📅 Dec 2022 – Sep 2025

📍 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.
- 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**.
- Adopted automation tools to construct **production-grade** and **GPU-accelerated** Kubernetes clusters, contributing to upstream Kubespray and backporting to existing playbooks.

## 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](#)

📄 [github.com/titaneric](#)

📧 [titaneric.com](#)

✉ [chenyihuang001@gmail.com](#)

## Skills

### Programming

Python • Go • Rust

### Technologies

Kubernetes • Containerization • 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

- Upgrading Loki with a Canary Deployment @ COSCUP 2025,
- 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

📍 [vectordev/vrl](#), [vectordev/vector](#)

### Support JSON-RPC in Go uprobe eBPF Instrumentation

📍 [open-telemetry/opentelemetry-ebpf-instrumentation](#)

### Reduced Redundant Calculations in Backpropagation

📍 [pytorch/pytorch](#), [jax-ml/jax](#)