

# Eric Huang

## Site Reliability Engineer

Certified Kubernetes Administrator, conscientious software engineer, and persistent learner. Believer in automation and skilled in observability, and cloud-native solution such as Kubernetes and Containerization. Confident in self-learning, large-scaled and multi-repo code tracing.

## Work Experience

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

📅 Dec. 2022 – Present

📍 Taipei, Taiwan

- One of the major maintainer for internal Terraform provider terda, contributed community in transnational way.
- Pioneer of adopting and advocating Terraform in LINE Taiwan, managed 80% internal infra in SRE team.
- Designed and implemented slack-based workflow automation framework to greatly improve operational cost and avoid manual error.
- Developed internal infra cost calculator, metrics snapshotter (for long-term usage), and dashboards to demonstrate cost estimation.
- Analyzed the root cause of technical debt, and developed alternative solution to resolve it. Also helped sunseting highly operational cost internal system.

### 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 Kubespray & backported to existing playbook.
- Developed tools for automating process of daily routine, config management, app deployment, and 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

- Forked Rust Playground to render Web Assembly from compiled Rust, and managed to render on mdBook as well.

### Court Reserver

- CLI program for Taipei Metropolitan court reservation, runs in the concurrency way to avoid manual operation on APP for individual usage only.

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## Skills

### Programming

Python • Golang • Rust • Typst

### Technologies

Kubernetes • Containerization • Nvidia

Cloud-Native tech • Linux SysAdmin •

TCP/IP • Wireshark • Observability

### IaC, CI/CD

Github Actions • Terraform • Ansible

### Language

Chinese • English

## Education

### MEng *Data Science*

📅 2018 – 2020

📍 National Chiao Tung Univ.

### BSc *Computer Science*

📅 2014 – 2018

📍 Yuan Ze Univ.

## Articles

- [transl.] Terraform for Verda - A journey of Infrastructure as Code for our private cloud
- 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

## Awards & Certs

- LINE Dev Governance Best Practice
- LINE 2023 Q2 Spot Bonus
- Certified Kubernetes Administrator
- Arctic Code Vault Contributor