

# Eric Huang

## Site Reliability Engineer

Certified Kubernetes Administrator, dedicated software engineer, persistent learner. 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
- One of major maintainer of internal Terraform provider terda, maintained community, and worked in **transnational cooperation**.
  - Pioneer of adopting and advocating Terraform in LINE Taiwan, and 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 sunsetting high 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

### Court Reservation CLI

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

### OCR Helper

- 2023 LINE Taiwan Hackthon project, provide RWD web interface for image OCR, summary, and translation.

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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.

## 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