

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 sunset 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.

☎ (+886)986366141
📧 chen-yi-huang
🌐 [titaneric](https://titaneric.com)
🌐 www.titaneric.com
✉ chenyihuang001@gmail.com

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