

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, developed, wrote acceptance tests, and maintained community, and worked in **transnational cooperation**.
- Pioneer of adopting and advocating Terraform in LINE Taiwan, developed Terraform modules, co-hosted terraform tutorial, 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 metrics collector, metrics snapshotter (for long-term usage), and dashboards to help internal infra cost estimation and reduction.
- Analyzed the root cause of technical debt, proposed and developed solution to mitigate it. Also helped sunseting 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 Kubespary & 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 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.

Slides & Talks

- 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

📍 [kubespary](#)

Bug reporting

📍 [vscode-python](#)

Awards & Certs

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