Eric Huang

Site Reliability Engineer

📞 (+886)986366141
💼 chen-yi-huang
🐙 titaneric
🔗 www.titaneric.com
✉ chenyihuang001@gmail.com

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 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 court reservation in the concurrency way to avoid manual operation on APP for individual usage only.

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
📍 kubespray

Bug reporting
📍 vscode-python

Awards

- Certified Kubernetes Administrator
- Arctic Code Vault Contributor