Eric Huang

Site Reliability Engineer

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Certified Kubernetes Administrator, dedicated software engineer, persistent learner, and enthusiastic open source contributor. 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

- Co-developed, troubleshooted, and wrote acceptance tests for internal Terraform provider terda in **transnational cooperation**.
- Extended terraform provider terda to terraformer, which lead to greatly help existing **Infrastructure to Code**.
- Pioneer of adopting Terraform, wrote Terraform modules in LINE Taiwan to import/deploy internal infra achieving **80%** terraform managed resource.
- Designed and implemented slack-based workflow automation framework to greatly improve operational cost and reduce manual error.
- Developed and refactored scraper to export the metrics of infra cost for each project and different region, helping the cost estimation and reduction.

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, 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 frontend rendering

- Render Web Assembly from compiled Rust code on self-hosted website.
- Support both Rust Playground (React) and mdBook (native JS)

Court Reservation CLI

- CLI program for court reservation in the concurrency way to avoid manual clicking on APP.
- Captured Wi-Fi packets, TLS traffic decryption from bypassing certificate pinning, HTTP packets dissection and implemented in Rust

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