Eric Huang

Site Reliability Engineer

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Certified Kubernetes Administrator and conscientious software engineer. Aiming to leverage my skills in automation, observability, cloud-native solutions, and problem solving abilities to improve system reliability and efficiency.

Work Experience

Site Reliability Engineer · *Engineering Dept., LINE Taiwan Limited*

📅 Dec. 2022 – Present · 📍 Taipei, Taiwan

- Co-maintained internal Terraform provider terda and promoted Terraform adoption and advocacy at LINE Taiwan.
- Profiled and tuned the self-hosted Loki, reducing storage overhead by **80%** and keeping query performance.
- Introduced Grafana Alloy and Faro SDK at LINE Taiwan, achieving end-to-end tracing, RUM, and presented the work at COSCUP 2024 .
- Developed slack-based workflow automation framework and migrated pipelines to GitHub Action, improving operational quality.
- Designed and built internal infra cost calculator, metrics snapshotter, and dashboards, providing cloud spending visibility and optimization.
- Developed internal secret management system integration toolkit, including GitHub Action and ArgoCD plugin, to enhance security and compliance.

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, and managed to render them on mdBook as well.

Court Reserver

- Rust CLI program for Taipei Metropolitan court reservation, runs in the concurrency way to avoid manual operation on APP.

Skills

Programming

Python • Golang • Rust • Typst

Technologies

Kubernetes • Containerization • Nvidia Cloud-Native tech • Linux SysAdmin • TCP/IP • Observability • ArgoCD

IaC, CI/CD

Github Actions • Terraform • Ansible

Education

MEng · *Data Science*

📅 2018 – 2020 · 📍 National Chiao Tung Univ.

BSc · *Computer Science*

📅 2014 – 2018 · 📍 Yuan Ze Univ.

Articles

- Grafana Alloy Best Practice
- [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

Fix golang map iteration (BPF)

📍 beyla

Support kubeadm patch

📍 kubespray

Awards & Certs

- LINE Dev Governance Best Practice
- Certified Kubernetes Administrator
- Arctic Code Vault Contributor