Eric Huang

Site Reliability Engineer

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

Work Experience

Site Reliability Engineer

Engineering Dept., LINE Taiwan Limited

Dec. 2022 - Present

- 🗣 Taipei, Taiwan
- Co-maintained organization-wide internal Terraform provider <u>terda</u>, and promoted Terraform adoption and advocacy at LINE Taiwan.
- Optimized log collecting pipelines at LINE Taiwan, and profiled and tuned the self-hosted Loki, reducing storage overhead by 80% and cutting down required resource by 70%.
- Introduced Grafana Alloy and Faro SDK at LINE Taiwan, achieving end-toend tracing, RUM, and presented the work at <u>COSCUP 2024</u>.
- Designed and developed automation tools such as slack-based workflow automation framework and GitHub Action to improve operational quality.
- Designed and built internal infra cost calculator, metrics snapshotter, and dashboards, providing private cloud spending visibility and optimization.

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 <u>Kubespray</u> & 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 <u>Rust Playground</u> to render Web Assembly from compiled Rust, and managed to render them on <u>mdBook</u> as well.

Court Reserver

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

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Skills

Programming

Python • Golang • Rust

Technologies

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

IaC, CI/CD

Github Actions • Terraform • Ansible

Education

MEng

Data Science

Yuan Ze Univ.

2018 - 2020

National Chiao Tung Univ.

BSc

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Computer Science

 \Box 2014 - 2018

Articles

- Grafana Alloy Best Practice
- [transl.] Terraform for Verda A journey of Infrastructure as Code for our private cloud
- <u>The Journey to the Kubernetes</u> <u>Networking</u>
- <u>The Journey to the Kubernetes</u> metrics
- Auto Differentiation
- Buddy System

Contributions

Improved VRL functions and Vector's components

vectordotdev/vrl, vectordotdev/vector

Reduced redundant calculation

• pytorch/pytorch, jax-ml/jax

Fixed golang map iteration (BPF)

grafana/beyla

Awards & Certs

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