# 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 in **cross-country cooperation**.
- Pioneer of adopting Terraform in LINE Taiwan to deploy internal infra.
- Designed and implemented workflow automation to greatly improve present operational process.
- Documented comprehensive system architecture, network traffic tracing and application deployment process.

### 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.
- Documented thorough k8s installation and operation guide that help pre-trained member leveraging automation tool and deploying a cluster within **1 day**.
- Assisted colleagues in resolving the issue in Ansible, Linux SysAdmin, and Kubernetes.

### Engineer — *Computer Integration Manufacturer, tsmc*

📅 Oct 2020 – Jan 2021  📍 Hsinchu, Taiwan

- Developed the web crawler to download **hundreds** of candidate resumes and general resume parser which achieved up to **95%** extracted information accuracy.
- Wrote integration-test under possible scenarios and detailed documents including building procedure and class diagram for senior's project.
- Pioneer of Robotic Process Automation and efficient i18n support for reporting APP.

## 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