Joe (Yung-Hung) Huang

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EXPERIENCE

System/Site Reliability Engineering (SRE)/DevOps Engineering *Mending Technology CO., LTD.*

Nov. 2023 - Dec. 2024

- Cryptocurrency Exchange System on AWS, On-premise with more than 200 EC2/EKS/VM nodes across development, test, staging and production environments.
 - * Participated in Deployment of On-premise self-managed: Kubernetes cluster via Kubeadm/MetalLB/VMware vSphere, MySQL, RocketMQ, Redis, Nacos, Harbor...etc.
 - * Participated in the cross-AWS account service migration in a production environment. Used Pulumi alongside Ansible to provision AWS EC2 resources.
 - * Implemented an automated provisioning workflow for various AWS resources (AWS IAM, EC2, Aurora MySQL, Route53...etc) in a staging environment using Pulumi with Python scripts, Ansible playbooks.
 - * Contributed to **optimizing and improving the CI pipeline** for the Java development team, providing demonstration workflows and best practices via **Gitlab CI and many other related Tools.**
 - * **Tech Stack**: Vue, PHP, Golang, Gin, Java, Spring Boot, Nacos, RocketMQ, Redis, Aurora MySQL, Python, Bash, Yaml, JSON, Linux, AWS, Gitlab, Docker, Kubernetes...etc

Site Reliability Engineering (SRE)/DevOps/Cloud engineering

Nov. 2021 - April. 2023

CloudRock Technology Co., Ltd

- Participated in multiple cloud deployment projects utilizing AWS, GCP, Alibaba Cloud, CloudFlare, and other public cloud services.
 - * Built systems using common cloud services such as EC2, EKS, GKE, ACL, ELB, RDS...etc, along with self-hosted services like Nacos, RocketMQ, Redis, etc.
 - * Maintained Kubernetes clusters for multiple client projects and provided optimization and troubleshooting solutions.
 - * Assisted in building and maintaining CI/CD pipelines for client projects, including optimizing .gitlab-ci.yml Bash scripts for GitLab Runner, significantly reducing cross-region network latency issues.
 - * Key Achievements: replacing VM-based Nginx servers with Kubernetes' built-in ingress-nginx and implementing automated certificates renewal via ingress-nginx/Cert Manager/SSL/TLS termination at the load balancer.
 - * **Tech Stack**: Java, Spring Boot, Spring Cloud, Golang, PHP, JavaScript, Yaml, Prometheus, Grafana, ELK stack, AWS, GCP, Alibaba Cloud, CDNetworks, Linux, Docker, Kubernetes(GKE, EKS, ACK)...etc
- Development in a Python Automation Project: boce-crawler
 - * Building a crontab task based on a **Python** program to extract network metrics from 3rd-party website and transform, load these data to MariaDB as Grafana datasource.
 - * Because of the **data loss of our 3rd-party network monitoring API** when testing with My automation teammate's API wrapper.
 - * Our crontab task keep running for **3 months** before we find another 3rd-party network monitoring service.
 - * **Tech Stack**: Python, Selenium, undetected-chromedriver, pandas, SQLAlchemy, Linux, Docker, Google Chrome, Maria DB, Grafana...etc
- Participated in a Long-term support project: Dragon
 - * Which is a video streaming platform based on a Open Source project: SRS and Kubernetes.
 - * Trying to restream live content across multiple platforms on server-side.
 - * Within this project, I've focus on building Hybrid cloud infrastructure with GCP/Alibaba Cloud.
 - * **Tech Stack**: Golang, Bash, Yaml, Prometheus, Grafana, ELK stack, GCP, Alibaba Cloud, CDNetworks, Linux, Docker, Kubernetes(GKE, ACK)...etc

homelab Jun. 2023 – Present

• From CNCF's Definition, trying to build lightweight Hybrid Cloud infrastructure for enhancement of personal tech stacks, building personal apps...etc

Tech Stack: Python, Bash, Golang, Rust, JavaScript/TypeScript, HTML5, CSS, Cloudflare, AWS, Linux, Proxmox Virtual Environment, Docker, k3s cluster(Lightweight Kubernetes), *-exporters, Prometheus, Grafana, ELK stack, Terrform, Ansible, Github Actions, Jenkins Container Registry, service mesh (linkerd), MongoDB, PostgreSQL, MySQL, InfluxDB, ... etc

LiveTerm May. 2023 – Present

- Building a e-portfolio website based on Cveinnt/LiveTerm to make a portal to link all my personal websites.
- Tech Stack: JavaScript/TypeScript, HTML5, CSS, Bash, node.js, React, Next.js, Linux, Docker, Nginx, Cloudflare...etc

sauce-man May. 2023 – Present

- · Building a discord bot based on Rapptz/discord.py to make discord app bertter to:
- · Advanced search features for who want make some records.
- · Fix Links Previews.
- Tech Stack: Python, Bash, discord.py, fastapi, pydantic, sqlalchemy, PostgreSQL, Linux, Docker, Nginx, Cloudflare...etc

resume Mar. 2023 – Present

- Building a online CV website based on LaTeX to record my experience, projects, education, skills.
- Render a CV file via single HTML-CSS-JavaScript transform from PDF Source with pdf2htmlEX or access PDF file directly via built-in PDF viewer of browsers(Google Chrome, Brave, Firefox, Safari...etc)
- Learning concepts of SSR (Server-Side Rendering), CSR (Client-Side Rendering).
- Development and Deployment CI/CD pipelines with Bash, Docker, GitHub to make Proof of concept.
- Tech Stack: LaTeX, pdf2htmlEX, Bash, JavaScript/TypeScript, React, Next.js, GNU Make, Github, Linux, Docker, Nginx, Cloudflare Tunnel

setup dev environment

Dec. 2022 – Present

- Building a personal notes website based on Material for MkDocs to render Markdown files to web pages.
- Tech Stack: Python, Bash, Yaml, Markdown, Github, GitHub Actions, Linux, Docker, Nginx, Cloudflare

EDUCATION

National Dong Hwa University

Sep. 2016 - Jan. 2019

Master of Science in Materials Science and Engineering

Shoufeng, Hualien

- Thesis: Ultrafast Pump-probe Transient Absorption Spectroscopy of Layer-controllable Molybdenum Disulfide Films
- · Research: Semiconductor Materials

National Dong Hwa University

Sep. 2012 - Jun. 2016

Bachelor of Science in Materials Science and Engineering

Shoufeng, Hualien

· Program of Advanced Materials

SKILLS

Languages: Mandarin (native), English (professional working proficiency)

Programming: Python(proficient), Bash(competence), JavaScript/HTML/CSS(competence), SQL(competence)

Frameworks: Selenium, pandas, SQLAlchemy

Infra: AWS, Kubernetes, GitLab Runner, Pulumi, Ansible