Joe (Yung-Hung) Huang

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EXPERIENCE

System/Site Reliability Engineering (SRE)/DevOps Engineering

Nov. 2023 - Dec. 2024

Mending Technology CO., LTD.

- 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

- Based on project characteristics and client requirements (e.g., chatting and social apps, payment systems, sports data platforms, live streaming services, etc.), assisted in system migration, deployment, and refactoring across multiple cloud environments, including AWS, GCP, Alibaba Cloud, CloudFlare, and other public cloud services.
 - * Implemented CNCF-compliant system architectures by progressively introducing **Docker containerization**, Kubernetes, and the Ingress-Nginx/Cert-Manager stack in different phases of the system development lifecycle.
 - * 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 Gitlab or Jenkins CI/CD pipelines for client projects, including optimizing .qitlab-ci.yml Bash scripts for GitLab Runner, significantly reducing cross-region network latency issues.
 - * 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.
 - * Suvery CI/CD pipelines built with Gitlab webhook with Tekton Pipelines to replace Gitlab Runner.
 - * 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