Joe (Yung-Hung) Huang

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EXPERIENCE

System/DevOps Engineering

Mending Technology CO., LTD.

Nov. 2023 - Dec. 2024

- Cryptocurrency Exchange System Operation/Migration/Refactoring/Backup on AWS, On-premise with more than 200 EC2/EKS/VM nodes across development, test, staging and production environments.
 - * Development Infrastructure as Code with Pulumi for AWS IAM/EC2/RDS/Route53...etc
 - * Development Automation with Ansible for EC2 initialization, Java apps with docker-compose...etc
 - * Building Pipelines with Gitlab runners
 - * Building a **CI pipeline** based on **Python**, **Bash**, **gitlab runner...and so many Languages & Tools** to make Java Developers working better with their codes.
 - * We have these stages: build code, scan code, build image, push image, deploy to k8s.
 - * The pipeline validation process, from Maven build to Docker push, was completed within approximately 3 minutes.
 - * Deployment to the EKS testing environment took less than 5 minutes in total, with room for further optimization.
 - * Tech Stack: 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.
- 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

PROJECTS

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

resume Mar. 2023 – Present

- Building a online CV website based on LaTeX to record my experience, projects, education, skills.
- Tech Stack: LaTeX, Bash, GNU Make, Linux, Docker, Nginx, Cloudflare

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