Joe (Yung-Hung) Huang

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EXPERIENCE

System/DevOps Engineer   Jun. 2025 – Current
Logic Solutions Inc.

- **DevOps Systems** on **AWS, On-premise**
  - ∗ **Troubleshooting services error, bugs, performance...etc** on **AWS (VPC/EC2/RDS...etc), On-premise** with **Linux CLI tools and related metrics, logs**
  - ∗ **Building Quantum Product Systems** on **AWS (VPC/EC2/RDS...etc)** with **Gitlab/Terraform/Terragrunt/AtlantisTerraform Pull Request Automation/Packer/Ansible**
  - ∗ **Maintaining CI/CD pipelines** with **Jenkins/Groovy scripts/Gitlab**
  - ∗ **Extend Observability** with **Grafana/Prometheus/*-exporters/Alertmanager/Consul**

System/Site Reliability Engineering (SRE)/DevOps Engineering   Nov. 2023 – Dec. 2024
Mending Technology CO., LTD.

- Supported a **cryptocurrency exchange platform** on AWS and on-premise infrastructure, focusing on making large-scale systems more controllable through **environment isolation**, **infrastructure automation**, and **reliability-oriented practices** across development, test, staging, and production environments.
  - ∗ Built a Docker container-based **toolbox** for **troubleshooting and automation development** across **AWS and on-premise environments**, enabling team members to quickly **set up standardized workflows**.
  - ∗ Worked with the team to **build an on-premise development environment** using **VMware vSphere, Kubernetes (kubeadm), and MetalLB**, reducing dependency on a shared AWS environment and improving developer productivity and environment isolation.
  - ∗ Implemented **Infrastructure as Code (IaC)** using **Pulumi (Python) and Ansible** to automate infrastructure changes in the **production environment** and provision a **staging environment** for QA, SRE, and DevOps teams.
  - ∗ Participated in **SRE/DevOps roadmap discussions** focused on improving system controllability, including Docker image hardening, observability enhancements, and automation of incident response workflows, aiming to reduce reliance on individual experience when diagnosing production issues.
  - ∗ Overall, my work focused on **turning complex cryptocurrency exchange infrastructure** into systems that are **easier to reason about, operate, and recover from failures**.

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 **.gitlab-ci.yml** Bash scripts for GitLab Runner, significantly reducing **cross-region network latency** issues.
- 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.
- 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.**

IoT Bootcamp
Jan. 2021 – May. 2021

Industrial Technology Research Institute, (ITRI)

- Participated in a **project: IndoorAirBox**
    * Which is a **monitoring platform** based on **Raspberry Pi, ESP8266, and related dev-tools**.

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/k0s cluster(Lightweight Kubernetes), *-exporters, Prometheus, Grafana, ELK stack, Terrform, Ansible, Github Actions, Jenkins Container Registry, service mesh (linkerd), MongoDB, PostgreSQL, MySQL, InfluxDB, ... 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 **Serverless services via Cloudflare Workers and Pages**
- Development and Deployment CI/CD pipelines with **Bash, Docker, GitHub, Cloudflare Pages** to make **Proof of concept.**
- **Tech Stack**: LaTeX, pdf2htmlEX, Bash, JavaScript/TypeScript, node.js, React, Next.js, GNU Make, Github, Linux, Docker, Nginx, Cloudflare Workers and Pages

setup devops 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 Languages: Python(proficient), Bash(competence), SQL(competence), Golang(beginner), Rust(beginner)

Version Control: git

Frameworks: Django, FastAPI, Selenium, pandas, SQLAlchemy

Operating system: Linux(proficient), macOS(beginner), Windows(beginner)

Continuous Integration(CI) & Continuous Delivery(CD):GitLab Runner, Github Actions, Jenkins, Tekton Pipelines, Argo CD

Streaming & Messaging: Apache RocketMQ, RabbitMQ

Scheduling & Orchestration: Kubernetes(EKS, GKE, ACK, k0s...etc), KEDA

Service Proxy: NGINX, HAProxy, MetalLB, Envoy

Service Mesh: Consul

Coordination & Service Discovery: Apache Zookeeper, Nacos, Netflix Eureka

Container Registry: Harbor

Automation & Configuration: Ansible, Atlantis, Terraform, Terragrunt, Pulumi, Ansible

Cloud Providers: AWS, Google Cloud, Alibaba Cloud, Cloudflare

Certification: AWS Certified Solutions Architect Associate, AWS Certified Cloud Practitioner