

Joe (Yung-Hung) Huang

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EXPERIENCE

System/DevOps Engineer

Jun. 2025 – Current

Logic Solutions Inc.

- **Quantum Product Systems on AWS, On-premise**

- * Building system on AWS with **Gitlab/Terraform/Terragrunt/AtlantisTerraform Pull Request Automation/Packer**
- * Development and Operation Automation tasks with **Ansible**
- * Building CI/CD pipelines with **Jenkins/Groovy scripts**
- * Extend Observability with **Grafana/Prometheus/*-exporters/Alertmanager/Consul**
- * **Tech Stack:** Linux, Windows Server, AWS, Gitlab, Terraform, Terragrunt, AtlantisTerraform Pull Request Automation, Packer, Ansible, Jenkins, Groovy, Bash, Python, Golang, JavaScript/TypeScript, Angular, Java, Spring Boot, Flyway, MySQL, Microsoft SQL Server, RabbitMQ, Bash, Docker, Kubernetes...etc

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 **.gitlab-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, MariaDB, 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

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**.
 - * **Tech Stack:** IoT , Linux, Embedded system development, Apache, C, PHP, JavaScript, CSS, HTML, Bootstrap

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, Terraform, 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 **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