

# Joe (Yung-Hung) Huang

✉ yunghunhuang984@gmail.com | 💬 blackdesert575 | 🗺 Taiwan (R.O.C) Taipei

## EXPERIENCE

### System/DevOps Engineer

*Logic Solutions Inc.*

Jun. 2025 – Current

- **Quantum Product Systems on AWS, On-premise**
  - \* Building system on AWS with **Gitlab/Terraform/Terragrunt/Atlantis****Terraform 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, Atlantis**Terraform 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

*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

*CloudRock Technology Co., Ltd*

Nov. 2021 – April. 2023

- 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

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### 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 **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 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

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### 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

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**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