

Joe (Yung-Hung) Huang

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EXPERIENCE

System/DevOps Engineer

Logic Solutions Inc.

Jun. 2025 – Current

- 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

Mending Technology CO., LTD.

Nov. 2023 – Dec. 2024

- 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

CloudRock Technology Co., Ltd

Nov. 2021 – April. 2023

- Worked from a Cloud to SRE/DevOps engineer in a consulting environment, supporting **multiple client systems** (e.g., social/chat applications, payment systems, sports data platforms, and live streaming services) by designing, migrating, and operating systems across **AWS, GCP, Alibaba Cloud, and Cloudflare**.
 - * Designed and evolved **CNCF-aligned system architectures** by introducing **Docker containerization, Kubernetes orchestration, and Ingress-Nginx + cert-manager** across different project phases.
 - * Built and operated cloud-native systems using managed services (**EC2, EKS, GKE, ELB, RDS**) and self-hosted middleware (**Nacos, RocketMQ, Redis**), balancing cost, performance, and operational complexity.
 - * Maintained and troubleshooted **multiple Kubernetes clusters** for client environments, providing performance tuning, deployment optimization, and incident-level support.
 - * Built and maintained **GitLab CI and Jenkins pipelines** for client projects, including optimization of **.gitlab-ci.yml** and Bash-based GitLab Runner workflows, reducing cross-region CI execution latency and improving pipeline stability.
- Developed a **Python-based automation project (boce-crawler)** to collect external network metrics and provide a reliable monitoring data source.
 - * Implemented a **scheduled data collection pipeline** using Python and crontab to extract metrics from third-party websites, transform the data, and load it into **MariaDB** as a **Grafana data source**.

- * Designed a temporary **fallback monitoring solution** to mitigate data loss caused by instability of a third-party monitoring API, ensuring **continuous metric availability** for approximately three months until a replacement service was adopted.
- Participated in a long-term support project (**Dragon**), a **video streaming platform** built on the open-source **SRS** project and Kubernetes.
 - * Contributed to building a **hybrid cloud infrastructure** across **GCP and Alibaba Cloud**, supporting server-side live stream restreaming to multiple platforms.
 - * Evaluated and prototyped CI/CD workflows using **GitLab webhooks and Tekton Pipelines** as an alternative to GitLab Runner, exploring cloud-native pipeline execution models.

IoT Bootcamp (Full-Stack & System Fundamentals Training)

Jan. 2021 – May. 2021

Industrial Technology Research Institute (ITRI)

- Completed an intensive hands-on training program covering **web development fundamentals, system programming, Linux environments, networking basics, and IoT system integration**.
 - * Implemented basic **front-end web pages using pure HTML, CSS, and JavaScript**, followed by backend development with **PHP and MySQL** for data persistence and integration.
 - * Built a local **Linux (Ubuntu) development environment using VirtualBox** and practiced foundational **Linux system programming concepts**, including process management, file systems, and networking fundamentals.
 - * Acted as a technical lead during team-based projects by introducing **Git and GitLab** for source code management, enabling collaborative development and version control workflows.
 - * Led the implementation of an **IoT monitoring system (IndoorAirBox)** using **Raspberry Pi and ESP8266**, focusing on temperature and humidity data collection with available course resources.

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 **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

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| National Dong Hwa University <i>Master of Science in Materials Science and Engineering</i> | Sep. 2016 – Jan. 2019 Shoufeng, Hualien |
| • Thesis: Ultrafast Pump-probe Transient Absorption Spectroscopy of Layer-controllable Molybdenum Disulfide Films • Research: Semiconductor Materials | |

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| National Dong Hwa University <i>Bachelor of Science in Materials Science and Engineering</i> | Sep. 2012 – Jun. 2016 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