

# Yung-Hung Huang

✉ yunghunghuang984@gmail.com | 🌐 hong539 | 📍 Taiwan (R.O.C) Taipei

## EXPERIENCE

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### System/DevOps Engineering

Nov. 2023 – Dec. 2024

*Mending Technology CO., LTD.*

- Blockchain 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
- Python, Bash shell script

### Site Reliability Engineering (SRE)/DevOps/Cloud engineering

Nov. 2021 – April. 2023

*CloudRock Technology Co., Ltd*

- Cloud Computing Operation: AWS, GCP, Aliyun, CloudFlare...etc
- System Operation/Migration/Refactoring/Backup
- Kubernetes Admin
- CI/CD pipelines based on GitLab
- Python Automation web scraping: **boce-crawler**
- **Dragon: streaming platform** based on **SRS project** and **Kubernetes**

## PROJECTS

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### boce-crawler

- Building a crontab task based on **Python, Selenium, pandas, SQLAlchemy, MariaDB...and so many Languages & Tools** 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.
- **Languages & Tools:** crontab, Python, concurrent.futures, Requests, Beautiful Soup, Selenium,undetected-chromedriver, pandas, SQLAlchemy, docker, MariaDB, Grafana

### 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.
- **Languages & Tools:** Python, Bash, Yaml, JSON, Gitlab, Gitlab Runner, Maven, kubectl, Docker

## 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

## 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