

# Yung-Hung Huang

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## EXPERIENCE

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### Systems architecture

Jan. 2021 – Present

#### *IOT System design*

- IndoorAirBox

#### Web System design

- Dragon
- Web-crawler

#### System migration

- Virtualized deployment to Kubernetes

### Cloud Computing

Jan. 2021 – Present

#### *Operation*

- Amazon Web Services(AWS)
- Google Cloud Platform(GCP)
- Microsoft Azure
- Alibaba Cloud
- CloudFlare

### Kubernetes

Jan. 2022 – Present

#### *Admin*

- Maintain operations for **k8s Cluster**
- Troubleshooting: **pod crashloopbackoff, network, I/O problems(Race Condition, OOM Out of memory)...etc**
- Subsystem research and deploy: **Ingress-NGINX, Cert-manager, Prometheus, Grafana, Redis, RabbitMQ, Elasticsearch, Fluentbit, Kibana, Gitlab runner, Tekton, KubeSphere, EMQX, Nacos, RocketMQ, ZooKeeper**

## PROJECTS

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### Dragon

- Building a system based on distributed model with multi k8s Clusters which provides **streaming services**
- Based on an open source project: **SRS(Simple Realtime Server)**
- **Languages & Tools:** Kubernetes, k6, kubectil-graph, Docker, Tekton, Grafana, Nginx, Git, Gitlab, Apache JMeter, Doxygen, C++, ffmpeg, Golang, go-callvis, go-swagger, Alibaba Cloud, GCP, CDN network

### Web-crawler

- Building a **web-service monitor/alarm system** such as Datadog,UptimeRobot...etc
- Because of the data loss of our third-party monitoring API, I develop a **backend service** to collect data on third-party network monitor system and push those data to our MariaDB for grafana datasources.
- **Languages & Tools:** Git, Gitlab, Python, Requests, BeautifulSoup, Selenium,undetected-chromedriver, pandas, SQLAlchemy, MariaDB, crontab, Grafana

### IndoorAirBox

- Building a system based on a Client-server model which monitors **air-quality, temperature and humidity**
- **Languages & Tools:** Raspberry Pi, NodeMCU, C/C++, JavaScript/HTML/CSS, Bootstrap, PHP, phpMyAdmin, MariaDB, Apache HTTP Server

## 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), C(competence), JavaScript/HTML/CSS(competence), SQL(competence)

**Frameworks :** Selenium, pandas, SQLAlchemy

**Infra :** Kubernetes, GitLab Runner, Tekton