Gao Zhiyuan

+82 1059223511
alapha23@gmail.com

Education

National Cheng Kung University Taiwan
B.S., Political Science *Sep. 2015 - May. 2017*

Seoul National University Korea
B.S., Computer Science and Engineering *Sep. 2019 - Aug. 2023(Expected)*

Skills: Python, AWS, Docker, Git, CI/CD, C/C++, Java, MySQL

Languages: Chinese, English (TOEFL 100), Japanese (JLPT N1) and Korean

Work Experiences

MISE
Devops Engineer *Jul. 2022 - Now*
- Improve system performances including AWS Lambda, API Gateway and MySQL RDS
- Apply Terraform IaaS for fast deployment
- Enabled development environment vs. production environment split to stablise our services
- Lead the team to learn to apply Github Best practices (PRs, code reviews)
- Implement the development/staging/release processes of our product
- Solve and follow up with 4 urgent business-impacting security flaws

MetaMUI-SovereignWallet
Python SDK Developer *Dec. 2021 - Mar. 2022*
Migrate Rust SDK to Python SDK for MetaMUI blockchain built with Substrate framework

Alibaba Cloud
Intern for Summer of Code *Jun. 2021 - Sep. 2021*
Nodejs Dev/QA intern for Serverless Devs. Developed unit tests, integration tests, and APIs and Git workflow automation with Typescript, Jest and Github workflow.

Chinese Academy of Science PLCT Lab
QEMU Developer *May. 2020 - Nov. 2020*
One patch to QEMU upstream to emulate Nuclei RISC-V SoCs with customised interrupt controllers and registers.
Delivered an oral presentation at CRVA 2020.

Google Summer of Code
Java Intern *Jun. 2019 - Sep. 2019*
Engineered Apache Nemo to process single-stage batch data with AWS Lambda Functions.

Seoul National University Software Platform Lab
Research Intern *Mar. 2019 - Nov. 2019*
Enable distributed dataflow system to benefit from serverless computing using AWS Lambda Functions, Java and Apache Nemo.
Two published domestic papers, and one pending research for international conferences.

SUSE Beijing, China
QA Intern *Oct. 2018 - Jan. 2019*
Part of the Dev&QA team working on openSUSE and SUSE Linux Enterprise, with git, openQA and perl.

Project

Accomodate Input Spikes with AWS Lambda Functions
A hyrbid system of Dockers and AWS Lambda Functions, where stable workloads are running on docker and input rate spikes are offloaded to AWS Lambda Functions.
Implemented job scheduling/balancing algorithm to coordinate Lambda Functions' life cycle, data relay, and systematic scale-ups and scale-downs.