

Gao Zhiyuan

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Education

National Cheng Kung University

B.S., Political Science

Taiwan

Sep. 2015 - May. 2017

Seoul National University

B.S., Computer Science and Engineering

Korea

Sep. 2019 - Jul. 2023(Expected)

Work Experience

MetaMUI-SovereignWallet

Python SDK Intern

Dec. 2021 - Now

Implementing Python SDK for MetaMUI blockchain built with Substrate framework.

Serverless Devs at Alibaba Cloud

Summer of Code Intern

Jun. 2021 - Sep. 2021

Developed devsapp/start-puppeteer, fc-info unit test and integration tests, an api to check runtime version in fc-common and Git workflow automation with Typescript, Jest and Github workflow.

PLCT Lab

Intern

Chinese Academy of Science

May. 2020 - Nov. 2020

Participated in the patch to QEMU upstream to emulate Nuclei RISC-V SoCs with customised interrupt controllers and registers.

Google Summer of Code

Intern

Apache Software Foundation

Jun. 2019 - Sep. 2019

Engineered Apache Nemo to process single-stage batch data with AWS Lambda Functions.

Software Platform Lab

Research Intern

Seoul National University

Mar. 2019 - Nov. 2019

Part of a team working to enable distributed dataflow system to benefit from serverless computing using AWS Lambda Functions, Java and Apache Nemo.

SUSE

Intern

Beijing, China

Oct. 2018 - Jan. 2019

Part of the Dev&QA team working on openSUSE and SUSE Linux Enterprise, with git, openQA and perl.

Publications

Unname paper, publication pending

A hybrid system for dealing with bursty input rates in stream processing applications, which dynamically creates VMs and serverless containers.

Actively participated in paper writing, research experiments and evaluation, algorithm design regarding VM scaling, and engineering the dataflow framework.

Serverless Computing: Pitfalls and Solutions

Korean Computer Congress 2019

First Author

Lambda Executor: extend Apache Nemo with serverless functions

Korean Software Congress 2019

First Author

Skills: C, Java, Python, AWS Lambda Functions, Binary Exploitation, Git, x86 Assembly

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