Gao Zhiyuan

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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 - Mar. 2023(Expected)*

Work Experience

Alibaba Cloud
Summer of Code Intern — *Jun. 2021 - Sep. 2021*
Developed QA test cases and Git workflow automation with Typescript, Jest and Github workflow.

PLCT Lab — Chinese Academy of Science
Intern — *May. 2020 - Nov. 2020*
Participated in the patch to QEMU upstream regarding emulation of RISC-V SoCs with customised interrupt controllers and registers.

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

Software Platform Lab — Seoul National University
Research Intern — *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 — Beijing, China
Intern — *Oct. 2018 - Jan. 2019*
Part of the QA team working on openSUSE and SUSE Linux Enterprise, with git and openQA, writing test cases in perl.

Publications

Unname paper, publication pending
A hyrbid 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*

Misc

Skills: C, Java, python, x86 Assembly, AWS Lambda Functions, Binary Exploitation, Matlab

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

Courses: Compiler, Operating System, GaTech CS6265(Introduction to Computer Security)