# Gao Zhiyuan

+86 13262224615
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 - Mar. 2023(Expected)*

## Work Experience

- **PLCT Lab** — Chinese Academy of Science
  *Intern* — *May. 2020 - Nov. 2020*
    - Emulated 32-bit RISC-V SoCs on QEMU supporting a customised interrupt controller 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

## Publications

- **A third-author paper rejected by EuroSys 2020**
    - 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, 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)