

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 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

Misc

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

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