

Education

- **National Cheng Kung University** Taiwan
B.S., Engineering Science Sep. 2015 - May. 2017
- **Seoul National University** Korea
Undergraduate, Computer Science and Engineering Sep. 2017 - ongoing

Work Experience

- **Software Platform Lab** Seoul National University
Intern Mar. 2019 - ongoing
 - Part of a group working on distributed dataflow system – Nemo, an Apache Incubator project
- **SUSE** Beijing, China
Intern Oct. 2018 - Jan. 2019
 - Part of the QA team working on openSUSE and SUSE Linux Enterprise
 - Add QA test cases with Perl Programming on openQA, with test cases version control and bug follow-ups

Publications

- **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
- **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.

Projects

- **Incubator-nemo Lambda Executor** Apache Software Foundation
Google Summer of Code May. 2019 - Sep. 2019
 - Migrated executor for batch applications to AWS Lambda functions.
 - Enabled executor on lambda functions' lifecycle management. Project only tested on single-stage stateless applications.
- **SnuPI/1 compiler** Sep. 2017 - Jan. 2018
 - Programmed and debugged full frontend of the compiler.
 - Implemented compiler code generator for x86 assembly.
- **Weighted Round Robin Scheduler** Mar. 2018 - Jul. 2018
 - Worked on the WRR Scheduler(Weighted Round Robin) project in a team of three.
 - Programmed and debugged WRR algorithm into linux kernel on Samsung Artik device, with load-balancing between 8 cores.