Gao Zhiyuan

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Education

- **National Cheng Kung University** Taiwan
  B.S., Engineering Science *Sep. 2015 - May. 2017*
  - Relevant courses: Signals and Sysytems, Logic Design, Electronics, etc.
- **Seoul National University** Korea
  Undergraduate, Computer Science and Engineering *Sep. 2017 - ongoing*
  - Relevant courses: Operating System, System Programming, Computer Architecture, Compiler, Logic Design, etc.

Work Experience

- **Software Platform Lab** Seoul National University
  Intern *Mar. 2019 - ongoing*
  - Part of a group working on distributed database system – Nemo, an Apache Incubator project
  - Java Programming using AWS api to use Lambda Function.
- **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.
  - Test cases version control and bug follow-ups

Publications and Presentations

- **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 paper under review on serverless computing**
  EuroSys 2020 *Third Author*
- **Open Source Application in Malaysian Aboriginal Education**
  OpenSUSE Asia Summit 2017 *Presentation*

Projects

- **Incubator-nemo Lambda Executor** Apache Software Foundation
  Google Summer of Code *May. 2019 - Sep. 2019*
  - Programmed on connections with AWS Lambda function.
  - Implemented test cases and nexmark queries in Java.

- **SnuPl/1 compiler**
  Compiler Course, 4190.409 *Sep. 2017 - Jan. 2018*
  - Programmed and debugged full frontend of the compiler.
  - Implemented compiler code generator for x86 assembly.
- **Source Code Plagiarism Detector**
  Jan. 2018 - Feb. 2019
  - Designed and implemented source code plagiarism detector,
  - Visualized plagiarism results with graphviz and Neo4j.
- **Weighted Round Robin Scheduler**
  Operating System Course, 4190.307 *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. Learnt linux kernel programming on my own
  - Designed load-balancing between 8 cores.
  - Tested the project with plenty of test cases.

Miscellaneous

Programming Languages: C, python, Java and x86 Assembly

Natural Lanuages: Chinese(Native), English(TOEFL 100), Japanese(JLPT N1) and Korean(Intermediate).