

Gao Zhiyuan

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## Education

- **National Cheng Kung University** Taiwan  
*B.S., Engineering Science* Sep. 2015 - May. 2017  
– Relevant courses: Signals and Systems, 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 Languages:** Chinese(Native), English(TOEFL 100), Japanese(JLPT N1) and Korean(Intermediate).