# 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, Computer Vision, etc.

## Work Experience

- **Software Platform Lab** — Seoul National University
  *Intern* — *Mar. 2019 - ongoing*
  - Part of a group working on distributed system especially in serverless computing
  - Java Programming with intensive AWS practices.
  - Submitted two papers for conferences as first author and third author.
- **SUSE** — Beijing, China
  *Intern* — *Oct. 2018 - Jan. 2019*
  - Part of a group working on our linux distribution – openSUSE Tumbleweed
  - Perl Programming on openQA.
- **DYSK Labs** — Taiwan
  *Intern* — *Aug. 2018 - Sep. 2018*
  - Setup GPU/CPU unified memory for tensorflow on ppc64le, learnt tensorflow memory allocator from source code on my own
  - Tested tensorflow build on ppc64le with custom tests.
  - Wrote documentation for programmers working in the environment.

## School Projects

- **Incubator-nemo Lambda Executor** — Apache Software Foundation
  *Google Summer of Code* — *May. 2019 - Sep. 2019*
  - Programmed on connections with Amazon Lambda function.
  - Implemented test cases and nextmark 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.

- **Other Projects**
  *2015 - 2018*
  - Implemented kafka web server in golang, part of streaming processing feature of TiDB
  - Added features to AMACC*AnotherMiniARMCCompiler* A Small C Compiler generating ELF executable for Arm architecture
  - Deploy tiny-yolov3 and darknet on Raspberry Pi, fine-tune tiny-yolov3 with WIDER FACE dataset
  - Built a fecal sampler on Raspberry Pi, designed power supply for actuator controlling.

## Skills

**Programming Languages:** C/C++, golang, python, Java and x86 Assembly

**Natural Lanuages:** Native speaker in Chinese, Proficient in English(TOEFL 100) and Japanese(JLPT N1)

**Miscellaneous:** Software configuration management, strong verbal and written communication skills, troubleshooting and debugging skills, good teams skills