Gao Zhiyuan

Seoul National University
Computer Science and Engineering

Email: 2017-81842@snu.ac.kr
Github: https://github.com/alapha23/

Education

B.S. Political Science, National Cheng Kung University, 2015.

B.S. Engineering Science, National Cheng Kung University, 2017.

B.S. Computer Science and Engineering, Seoul National University University, 2017.

Skill

C Programming Language

Projects

SnuPL/1 Compiler

SnuPL1 is a procedural language related to Oberon programming language. SnuPL/1 does not support object-orientation and the only composite data type supported are arrays.

Implemented in C++ the compiler will compile SnuPL/1 source code into 32-bit Intel assembly code.

SNU Source Code Plagiarism Detector

Extract Abstract Syntax Tree(Ast) from gcc for C programs.

Apply Tree Edit Distance algorithm to compare distance between two Asts.

Visualize plagiarism result with Graphviz and Neo4j

Rotation based Read-write Lock for ARTIK10

A read-write lock based on rotation information from device.

Synchronize with spinlock and conditional variables.

Manage waiting list with linux circular list.

Activities

Speaker at OpenSUSE Asia Summit 2017 with topic of Open Source Application in Malaysian Aboriginal Education

Proficient in English and Japanese