Ryang Sohn

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Education

POSTECH (Pohang University of Science and Technology) *Feb 2022 – Ongoing*
Majoring in Computer Science and Engineering, double major in Mathematics

Skills

Programming Languages	Python, Rust, C/C++, JavaScript, Java, Go
Tooling	Git/GitHub, Docker, Linux, CMake
Natural Languages	Korean (native), English (working proficiency)

Work Experience

PoApper Inc. *Jan 2022 – Mar 2023*
Part-time Backend Engineer
– Skills used: Python, Go
– Developed `fights.ai`, an environment for competitive game-playing agents

Theori *Jan 2024 – Ongoing*
ChainLight WARD Intern Researcher
– Skills used: Rust, Static Program Analysis

Awards and Honors

POSTECH CSE Global Leadership Program 2024 Spring *Mar 2024*
A scholarship program for high-performing POSTECH CSE students.

POSTECH CSE Global Leadership Program 2023 Fall *Sep 2023*
A scholarship program for high-performing POSTECH CSE students.

2022 암호분석경진대회 국방정보본부장상 *Oct 2022*
Cryptanalysis contest held by Ministry of Defense of Korea.
– Worked on:
  – Multi-threaded PoC code for attacking weak Bitcoin-like wallet scheme
  – Security anlaysis of Sponge-based hash function

POSTECH Programming Contest 2022 신인상 *Sep 2022*
Coding competition for POSTECH students.
– Participated as Team 대줴패, ranked first among freshman students.

2022 Deep Learning Hardware 설계 경진대회 장려상 *Jun 2022*
Competition to design FPGA-based accelerator for neural networks.
– Worked on: 8-bit quantization algorithm of YOLOv3 neural network.

Personal Projects

`stapl` – Simple, Type-Annotated Programming Language
A compiler for imperative programming language with type annotations.
– Written in C++ and based on LLVM.

– Striving to follow best practices of modern C++ and software development (modularity, unit testing, documentations, etc.)

PintOS Implementation

Implementing PintOS, an educational operating system.

– Worked on threading, userspace programs, and vitual memory system similar to object-based reverse mapping of Linux.