

# Ryang Sohn

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## Education

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### POSTECH (Pohang University of Science and Technology)

Feb 2022 – Ongoing

Majoring in Computer Science and Engineering, double major in Mathematics

## Skills

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

## Work Experience

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### PoApper Inc.

Jan 2022 – Mar 2023

Part-time Backend Engineer

- Skills used: Python, Go
- Developed `fight.ai`, an environment for competitive game-playing agents

### Theori

Jan 2024 – Ongoing

ChainLight WARD Intern Researcher

- Skills used: Rust, Static Analysis

## Awards and Honors

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### POSTECH CSE Global Leadership Program 2023

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 analysis of Sponge-based hash function

### POSTECH Programming Contest 2022 신인상

Sep 2022

Coding competition for POSTECH students.

- Participated as Team 대췌패, 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

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### stap1 – 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 virtual memory system similar to object-based reverse mapping of Linux.