

# Ryang Sohn

ryangsohn [at] postech [dot] ac [dot] kr

## Education

---

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

*Feb 2022 – Ongoing*

Majoring in Computer Science and Engineering, double major in Mathematics (GPA 4.16/4.30)

## 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 `fight.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 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

---

### 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.