

Seungwoo Ko

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EDUCATION

University of Waterloo

Bachelor of Arts in Mathematics

Waterloo, ON

Sep. 2022 – Present

MILITARY SERVICE

Republic of Korea Army (ROKA)

Active Duty, Full Military Service

South Korea

Sep. 2023 – Mar. 2025

EXPERIENCE

Assistant Teacher

Grace English Academy

Jun. 2021 – Aug. 2021

Hwaseong, Gyeonggi, South Korea

- Assisted in instructional delivery across preschool to middle school levels, adapting to diverse classroom environments.
- Collaborated with lead teachers on lesson planning and implementation to ensure continuity in instruction.
- Facilitated student engagement through interactive activities and provided academic support as needed.
- Maintained a well-managed, supportive classroom environment conducive to learning.

English-Korean Translator

International Volunteer Organization (IVO)

July 2022 – Aug. 2022

Yongin, Gyeonggi, South Korea

- Translated English documents to Korean for educational purposes.
- Translated a Korean job posting announcement into English.

PROJECTS

Isaac Item Detection App | *Python, OpenCV, PyAutoGUI, NumPy*

Mar. 2025 – Present

- Built an image recognition tool to detect pedestal items in The Binding of Isaac gameplay screenshots
- Applied template matching and filtering techniques to identify and remove duplicate detections
- Designed modular code to support integration of item lookup and description rendering

TECHNICAL SKILLS

Languages: C/C++, JavaScript, HTML/CSS, Python, Bash

Frameworks: JQuery, BootStrap

Developer Tools: VS Code, Visual Studio, Vim, Ubuntu, Git

Libraries: NumPy, OpenCV, PyAutoGUI