Seungwoo Ko

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EDUCATION

University of Waterloo   Waterloo, ON
Bachelor of Arts in Mathematics   *Jan. 2026 – Present*

MILITARY SERVICE

Republic of Korea Army (ROKA)   South Korea
Active Duty, Full Military Service   *Sep. 2023 – Mar. 2025*

EDUCATION

University of Waterloo   Waterloo, ON
Bachelor of Arts in Mathematics   *Sep. 2022 – Apr. 2023*

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