Heesu Kim

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EDUCATION

Sungkyunkwan University   Seoul, South Korea
Bachelor of Science, Data Science GPA: 4.02/4.5   *Feb 2021 – Feb 2027*

University of Washington   Seattle, WA
Visting Student   *Feb 2023*

EXPERIENCE

Army Sergeant   Apr 2023 – Oct 2024
Defense Security Agency, Ministry of Defense
- Assisted with US-ROK joint operation through translation and interpretation
- Created and managed tools that automated a key part of workflow during service

PROJECTS

Stencil | *OpenAI API, Elevenlabs API, Python, Git*   Dec 2024 – Feb 2025
- Developed a tool that fully automates the creation of short-form video content
- Generates transcription from source text using OpenAI's API
- Transformed the text data into narration using Elevenlab's API
- Combined the intermediate products using pymovie to produce the final video content

Workflow Process Automation Tool | *PowerShell*   Dec 2023 – Jun 2024
- Implemented basic macro functions by accessing Win32 API through PowerShell
- Analyzed the assigned workflow and found repetitive actions that can be automated
- Entire development process occured in an area with restricted internet access

Compression Utility Using Huffman Code | *C*   Nov 2022 – Dec 2022
- Implemented Huffman Code in C
- Created a compression CLI tool based on the implementation
- Achieved a compression ratio of 1.8 on selected text files

GPU Price-Performance and Market Share Model | *R, Python*   May 2022 – Jul 2022
- Modeled the relationship between market share data and price-performance metrics
- Crawled public data to establish average benchmarks of graphics cards

AWARDS

3rd Place, Bias-a-Thon 2025 Track 1   Jun 2025
Awarded by the Dean of the College of Computing and Informatics, Sungkyunkwan University
- Recognized for identifying and addressing biases against certain demographics in commonly used Large Language Models
- Hackathon hosted by the Center for Multimedia Intelligence, Sungkyunkwan University

TECHNICAL SKILLS

Languages: Python, C, JavaScript, R, PowerShell
Developer Tools: Git, VS Code, Visual Studio
Libraries: PyTorch, pandas, NumPy, Matplotlib, Seaborn