

# Heesu Kim

📍 Seoul, South Korea    ✉ kheesu496@gmail.com    ☎ 010-3865-6725    🌐 kheesu    📄 heesu-kim-747764342

## Education

---

**BS**    **Sungkyunkwan University**, Data Science  
• GPA: 4.02/4.5

Feb 2021 – Feb 2027

## Experience

---

**Defense Security Agency, Ministry of Defence**, Army Sergeant

Apr 2023 – Oct 2024

- Facilitated the cooperation between the U.S Army and the DSA via translation and interpretation
- Developed and implemented mission-assisting software systems for the DSA using PowerShell & Python

## Projects

---

**Huffman coding implementation as a compression algorithm**

[github.com/kheesu/huff](https://github.com/kheesu/huff) 

- Implemented required abstract data types such as tree and heap using the C programming language
- Achieved compression ratio of ~1.8 on text files
- Tools Used: C

**Development of mission-assisting software during military service**

- Analyzed the assigned workflow and found repetitive actions that can be automated
- Implemented basic macro functions using PowerShell and Win32 API
- Entire development occurred in an environment without access to the internet

**A study on the relationship between the market shares of GPU models in the gaming market and their cost efficiency**

- Used publicly available data from Valve, operator of the largest PC gaming platform
- Created an accurate model that predicts the market share of a GPU model based on its cost-to-performance ratio

## Skills

---

**Languages:** C, Python, R, PowerShell

**Technologies:** Pandas, Numpy, Pytorch, Matplotlib, Seaborn, Jupyter Notebook, Microsoft Excel

## Further Information

---

**Spoken Languages**

- Korean (native)
- English, fluent (TOEFL IBT score of 113)

**Interests**

- Investing and trading algorithms
- Language learning