

# Joseph Jimin Kim

[jkim5@haverford.edu](mailto:jkim5@haverford.edu) | 484 588 9361 | Personal Website: [joseph-kimm.github.io](https://joseph-kimm.github.io)  
GitHub: [github.com/joseph-kimm](https://github.com/joseph-kimm) | LinkedIn: [linkedin.com/in/joseph-kim-251333229](https://linkedin.com/in/joseph-kim-251333229)

## EDUCATION

### Haverford College, PA

Aug. 2021 – May 2025

**Major:** Computer Science; **Minor:** Psychology

GPA: 4.0

**Honors and Awards:** John P. Chesick Scholar; The Thomas Wistar, Sr. 1898 Memorial Scholar

### Yonsei University (Study Abroad), Seoul, South Korea

Mar. 2024 – June 2024

**Course Highlights:** Data Structures, Data Science, Analysis of Algorithms, Software Engineering, Artificial Intelligence, Linear Algebra, Systems Programming, AI-based Education Program

## SKILLS

**Languages:** Python, Java, C, JavaScript, Bash, HTML, CSS

**Frameworks/Libraries:** Node.js, Express.js, NumPy, pandas, Keras, JUnit, Sockeye

**Tools:** Git, Google Colab, Android Studio, VS Code, Jamovi, MongoDB, LaTeX

## PROJECTS

### *Event Calendar*

- Developed a web application using JavaScript and Express.js with REST API architecture for students to post, edit, delete, and view events that are happening around campus
- Implemented an Android application using Java to communicate with the web application
- Utilized MongoDB database server to store events and user authentication information
- Collaborated with 3 other students using Agile methodology and GitHub for project management

### *Konane AI Engine*

- Created an AI engine that can play Konane game with the user using python and command line interface
- Used a Minimax algorithm and alpha-beta pruning to determine the optimum move

### *UNO Card Game*

- A computer version of the interactive multiplayer card game Uno with a focus on OOP
- Developed using Java and Java Swing for user interface

## EXPERIENCE

### Undergraduate Teaching Assistant

Sept. 2023 – Jan. 2024

*CS Department, Haverford College & Bryn Mawr College*

- Assisted in teaching Introduction to CS in Python and Discrete Mathematics for 30+ students
- Answered questions in class lecture, held weekly office hours, and graded homework

### Student Researcher

May 2023 – Nov. 2023

*Summer Science Research, Bryn Mawr College*

- Conducted research on the impact of various deadline policies in CS education
- Reviewed relevant literature, designed survey, and performed data analysis of 50+ participants
- Co-wrote a paper that was accepted for ACM SIGCSE Technical Symposium

### NLP Research Assistant

Jan. 2023 – Aug. 2023

*Grissom Lab, Haverford College*

- Scraped and cleaned Korean-English corpus of more than 1 million lines for NLP
- Built pipelines in Bash and programs to train Transformer-based MT models using Sockeye framework
- Evaluated the accuracy of models with shuffled and non-shuffled training dataset

### Lab Monitor

Aug. 2022 – Dec. 2023

*CS Department, Haverford College*

- Resolved technological difficulties for 50+ students taking Intro CS and Data Structures course
- Supported students in developing and debugging Python and Java code and learning data structures