Joseph Jimin Kim

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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

Course Highlights: Data Structures, Data Science, Analysis of Algorithms, Software Engineering, Artificial Intelligence

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
- 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

SKILLS

Languages: Python, Java, C, JavaScript, Bash

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

Tools: Git, Google Colab, Android Studio, VS Code, PyCharm, IntelliJ, Jamovi, MongoDB