

Joseph Jimin Kim

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EDUCATION

Haverford College, PA

Expected: May 2027

Major: Computer Science

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, Big Data and Society

PROJECTS

Bible Verse Explorer | *Python, Flask, PostgreSQL, Javascript, Docker*

- Built an interactive 3D web application visualizing semantic relationships between Bible verses
- Used Sentence-Transformer for embeddings, UMAP for dimension reduction, Three.js for 3D visualization

AI_CU - AI-based Attention Monitoring System | *Python, MongoDB*

- Prototype program to detect student face and eyes while watching recorded lectures using OpenCV
- Integrated Tkinter GUI and multithreading for real-time performance in computer labs

Campus Event Calendar | *Javascript, Express.js, Android (Java), MongoDB*

- Built a cross-platform web and Android application using REST API architecture
- Collaborated with 4-member team using Agile methodology and GitHub for version control

WORK EXPERIENCE

Information Security Specialist

Oct. 2024 – Present

Intelligence Information Systems Management Group, Republic of Korea Air Force

- Monitor external and internal network activity in headquarters of Korean Air Force
- Provide timely solutions to security breaches and system vulnerabilities
- Develop automated tools for routine checks for firewall and antivirus software, reducing manual workload

Undergraduate Research Intern

Mar. 2024 – Sept. 2024

AIEd Lab, Yonsei University

- Contributed to various projects studying the role of technology in education
- Led development of an AI program detecting student attention during recorded lectures

Teaching Assistant & Lab Monitor

Aug. 2022 – Jan. 2024

CS Department, Haverford College & Bryn Mawr College

- Supported instruction for Introduction to Computer Science in Python and Discrete Mathematics
- Provided individual support during lecture, held weekly office hours, and graded homework
- Resolved technological difficulties and helped debug Python and Java code for 40+ students

Student Researcher

May 2023 – Nov. 2023

Summer Science Research, Bryn Mawr College

- Conducted research on the impact of various deadline policies in making CS education more welcoming
- Reviewed relevant literature, designed survey, and analyzed data from 50+ participants
- First author of a peer-reviewed paper presented at the 2024 ACM SIGCSE Technical Symposium

NLP Research Assistant

Jan. 2023 – Aug. 2023

Grissom Lab, Haverford College

- Collected and cleaned Korean-English corpus of more than 1M lines for NLP research
- Implemented pipelines in Makefile and trained Transformer-based MT models using Sockeye framework
- Evaluated the accuracy of various models and generated plots to represent key findings