

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 <i>Python, Flask, PostgreSQL, Javascript, Docker</i>	
• 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 <i>Python, MongoDB</i>	
• 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 <i>Javascript, Express.js, Android (Java), MongoDB</i>	
• 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
<i>Intelligence Information Systems Management Group, Republic of Korea Air Force</i>	
• 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	
<i>AIED Lab, Yonsei University</i>	
• 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	
<i>CS Department, Haverford College & Bryn Mawr College</i>	
• 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	
<i>Summer Science Research, Bryn Mawr College</i>	
• 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	
<i>Grissom Lab, Haverford College</i>	
• 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	