

Sunyoung Kim

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Education

Ph.D. Computer Science

Arizona State University

Fall 2026 - In progress

Advisor: Dr. Hokeun Kim

B.S. Computer Science

Arizona State University

May 2026

- **GPA:** 4.00 / 4.00
- **Relevant Coursework:** Computer Networks, Computer Architecture, Design and Analysis of Algorithms, Data Structures and Algorithms, Linear Algebra, Probability, Software Engineering, Principles of Programming Languages, Theoretical Computer Science, Information Assurance, Computing Ethics

Sookmyung Women's University(Transferred)

Bachelor of Science in Computer Science

Seoul, South Korea

2021-2023

Conference Proceedings and Publications

1. **Sunyoung Kim** and Hokeun Kim, "A Case Study on Delegating Critical Tasks to Agentic AI and Prototype Access Control Methods", in *Proceedings of the IEEE 5th Cyber Awareness and Research Symposium (CARS'25)*. 2025

- Honorable Mention - Undergraduate Presenter Award

2. **Sunyoung Kim** and Hokeun Kim, "Access Controlled Website Interaction For Agentic AI with Delegated Critical Tasks", in *Proceedings of the ACM Web Conference (WWW)*. 2026

Research Experience

Knowledgeable Interactive Machines Lab, Arizona State University

Tempe, AZ

Independent Researcher

May 2025 - May 2026

- Undergraduate research under Professor Hokeun Kim for the Fulton Undergraduate Research Initiative (FURI) Summer Research Program. Presented a poster at a research symposium.
- Secure and Resilient Access Management for Distributed Intelligent Computing Systems
- Implemented a distributed access control framework based on open source Secure Swarm Toolkit using Linux containers.
- Simulated a large-scale network environment with ns-3 to evaluate secure migration between entities.

Algos, Sookmyung Women's University

Seoul, South Korea

Officer

Mar 2022 - Dec 2023

- Studied algorithms and data structures through weekly problem-solving and Baekjoon Online Judge.
- Promoted inclusion of women in Computer Science and Engineering
- Improved coding skills and algorithmic thinking in languages C++ and Java.

SKILLS, ACTIVITIES & INTERESTS

Programming Languages: Java, C, C++, Python, R

Web Frameworks: React, [Node.js](#)

Design and Modeling Tools: Git, GitHub, Google Suite, Microsoft Office Suite, MATLAB, ns-3, LXC

Operating Systems: Linux, macOS

Projects:

- **3D Model Semantic Search System (ASU Capstone):** A full-stack application that enables natural language search over 3D Matterport models by combining computer vision and vector embeddings.