Soo Yeon Ahn
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Education

University of Illinois Urbana-Champaign   Aug 2021 – May 2025
B.S. in Mathematics and Computer Science   GPA: 3.69/4.0
- Dean's List: Fall 2021, Spring 2022

University of Washington, Seattle   Sep 2020 – May 2021
B.S. Biological and Physical Sciences (Pre-Sciences)   GPA: 3.95/4.0
- Annual Dean's List: 2020 – 2021

Work Experience

Dassault Systèmes   Jul 2023 – Jan 2024
Software Engineer Intern   Daegu, Republic of Korea
- Developed and maintained C++ and COM-based modules for 3D modeling software used by over 300,000 global organizations
- Designed intuitive UI components using proprietary frameworks, enhancing accessibility and usability
- Collaborated with international engineering teams, contributing to cross-border software development

Teaching & Leadership

Private English Institution   Feb 2024 – Jul 2024
English Instructor   Seoul, Republic of Korea
- Taught English to primary and secondary school students, adapting curriculum to varied proficiency levels
- Built communication skills and developed instructional approaches for individualized learning

Computer Science Department (UIUC)   Jan 2022 – May 2023
Course Assistant (Introduction to Computer Science II)   Urbana, IL
- Led weekly discussion sessions (~30 students) on C++ fundamentals and data structure algorithms
- Provided hands-on debugging help and personalized mentoring during 4–6 hours of office hours weekly
- Supported students in developing coding projects and improving problem-solving techniques

Projects

Optical Character Recognition (OCR) App (Team)   CS 222 (Fall 2022)
- Developed an OCR-based app using OpenCV and Pytesseract to extract and highlight user-specified text from images
- Enhanced recognition accuracy with custom image processing techniques

Movie Ratings Query (Team)   CS 411 (Summer 2022)
- Implemented a webpage that could query movie ratings using Google Cloud and MySQL
- Included processes like importing movie ratings and processing ratings to make the data easy to query
- Webpage development included front-end technologies such as HTML, CSS, and JavaScript

Web Page Ranking Algorithm (Team)   CS 225 (Spring 2022)
- Implemented a PageRank-style algorithm using graph structures and priority queues to rank web pages by keyword relevance
- Optimized traversal and ranking for performance and scalability

Image Processing Application (Team)   CS 128 (Fall 2021)
- Built a tool to apply color filters (Redscale, Grayscale, Bluescale, Greenscale) and a mosaic blur using matrix transformations
- Demonstrated understanding of basic graphics programming and filter composition

Technical Skills

Programming (Ordered in Proficiency)	C++, C, Python, Java, Haskell, MATLAB, Verilog, JavaScript
Tools & Technologies	OpenCV, Pytesseract, Git, VSCode, COM, MongoDB, MySQL
Concepts	OOP, FP, SDLC, TDD, Multithreading & Concurrency, Version Control
Spoken/Written	(Git)Korean (Native), English (Fluent), Chinese – Mandarin (HSK Level 4)