Soo Yeon Ahn

soo.yeon.ahn2002[at]gmail.com | [LinkedIn](#) | [Personal Website](#) | [GitHub](#)

Personal Summary

Aspiring software engineer with experience as a Software Engineer Intern at Dassault Systèmes, where modules for 3D modeling software were engineered and maintained, enhancing usability for over 300,000 global users. Proficient in C++, Java, Python, and JavaScript, with a focus on backend development and expanding into full-stack. Eager to leverage technical skills and collaborative experience to contribute to innovative software solutions.

Education

University of Illinois Urbana-Champaign	Aug 2021 – May 2025
B.S. in Mathematics and Computer Science	**GPA**: 3.69/4.0

• **Achievements**: Distinction Math/CS (Department Honors); Fall 2021, Spring 2022 (Dean's List)

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

• Engineered and maintained C++ and COM-based modules for 3D modeling software used by over 300,000 global organizations, improving software reliability and performance

• Designed intuitive UI components with proprietary frameworks, enhancing product usability and aligning with customer experience improvements

• Collaborated with international engineering teams to implement cross-border software solutions and facilitate code reviews, demonstrating adherence to established software development methodologies

Projects

Maze Game (Solo)	July 2025

• Developed a maze-solving game where the maze is generated depending on user input and Prim's algorithm

• Built based on C++ to expedite the graph generation and Crow to connect to the server

• CSS, HTML, JavaScript used for user interaction and to display the text-displayed maze on the server

2D Heat Simulator (Solo)	June 2025

• A 2D heat simulator used to mimic the distribution of heat over time based on PDE

• Used NumPy and Matplotlib to calculate and display the distribution of heat over time

Optical Character Recognition (OCR) App (Team)	CS 222 (Fall 2022)

• Developed an app for OCR 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

Technical Skills

• **Programming**: C++, C, Python, Java, Haskell, MATLAB, Verilog, JavaScript

• **Tools & Technologies**: OpenCV, Pytesseract, Git, VSCode, COM, MongoDB, MySQL, Database Management

• **Concepts & Methodologies**: OOP, FP, SDLC, TDD, Multithreading & Concurrency, Version Control, Software Development Methodologies, Coding Language, Basic Coding Principles, Code Review Participation, Testing Software Applications

• Professional Skills: English Language Proficiency, Korean Language Proficiency, Limited Mandarin Chinese Language Proficiency