

Soo Yeon Ahn

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Personal Summary

Software engineer with C++ development experience at Dassault Systèmes, contributing to modules used by 300K+ users. Proficient in backend development with expanding frontend skills. Strong academic foundation in algorithms, systems, and databases. Passionate about building performant, user-centric software.

Technical Skills

- Languages: C/C++, Python, Java, JavaScript, Haskell, MATLAB, Verilog
- Frameworks/Tools: OpenCV, Crow, Git, VSCode, COM, Visual Studio
- Databases: MySQL, MongoDB
- Version Control: Git (CLI), GitHub – proficient with branching, merging, rebasing, resolving merge conflicts, and managing pull requests
- Other: Object-Oriented Programming (OOP), Test-Driven Development, (TDD), SDLC, Version Control

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
 - Transferred to UIUC after freshman year

Work Experience

- Dassault Systèmes Jul 2023 – Jan 2024
Software Engineer Intern Daegu, Republic of Korea (On-Site)
- Engineered and maintained C++/COM modules for enterprise 3D modeling software with 300K+ users
 - Designed and integrated UI components using proprietary frameworks to improve UX
 - Collaborated with international teams on cross-border software solutions and code reviews

Teaching & Leadership

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

Projects

- To-Do List Web App (Solo) [Demo](#) | [GitHub](#) July 2025
- Developed a full-stack web application for managing personal to-do tasks with user authentication using Firebase
 - Built with Flask, SQLite, and SQLAlchemy on the backend; implemented login/registration using secure password hashing
 - Designed dynamic task UI using HTML/CSS/JavaScript, enabling users to create, display, and mark tasks in real time
 - Applied modular Flask structure with routes, models, and templates for maintainable codebase
- Maze Game (Solo) [Demo](#) | [GitHub](#) June 2025
- Built a dynamic maze game using C++ and Prim's algorithm; deployed using Crow server
 - Designed interactive UI with HTML/CSS/JS to display maze visualization in browser

Languages

- English (Fluent)
- Korean (Native)
- Mandarin (Conversational)