

# Soo Yeon Ahn

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## Personal Summary

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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

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- 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

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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

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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

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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

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To-Do List Web App (Solo) July 2025

- Developed a full-stack web application for managing personal to-do tasks with user authentication
- 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) 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

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