

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: 3.7/4.0*)
- Dean's List: Fall 2022, Spring 2023

University of Washington, Seattle (*2020 – 2021*)

- **Biological and Physical Sciences** (*GPA: 3.99/4.0*)
 - Annual Dean's List: 2020 – 2021
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Technical Skills

Programming Languages: C++, Python, Java, C, MATLAB, SQL (MySQL, MongoDB)

Tools & Technologies: OpenCV, Pytesseract, COM, Git, VSCode, Object-Oriented Programming (OOP)

Languages: Fluent in English & Korean, Intermediate Mandarin (HSK Level 4)

Work Experience

Dassault Systèmes, Korea (*July 2023 – Jan 2024*)

Software Engineer Intern

- Developed **C++ and COM-based** software for **3D modeling applications**, enhancing functionality for 300,000+ organizations globally.
 - Designed and implemented **UI components** using **Sypstyle**, improving user accessibility and workflow.
 - Collaborated cross-functionally with engineers from **multiple countries**, contributing to global software development efforts.
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Projects

Optical Character Recognition (OCR) App (*Software Design Lab Project*)

- Developed an **OCR-based application** using **OpenCV & Pytesseract**, allowing users to extract and highlight specific text from images.
- Applied **image processing techniques** to improve text recognition accuracy and performance.

Web Page Ranking Algorithm (*Data Structures Project*)

- Implemented a **PageRank algorithm** using **graphs and priority queues** to dynamically rank web pages based on search keywords.
- Utilized **data structures and traversal algorithms** to optimize ranking efficiency.

Image Processing Application (*Intro to CS II Project*)

- Built an application that applies **custom color filters** (Redscale, Greyscale, Bluescale, Greenscale) to images.
 - Developed an additional **mosaic filter** for image blurring using **matrix operations**.
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Teaching & Leadership Experience

University of Illinois Urbana-Champaign (*Jan 2022 – May 2023*)

Course Assistant – C++ Programming

- Led **weekly discussion sessions** (~20 students), teaching **C++ fundamentals, data structures, and traversal algorithms**.
 - Assisted students **4–6 hours per week** in debugging and problem-solving during office hours.
 - Provided **one-on-one mentoring** and guided students through coding assignments and projects.
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