

# 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, MySQL, MongoDB, Verilog, Haskell

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

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

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## 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 **company's UI development system**, 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.