Sewon Sohn

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Education

University of Oregon, Eugene, OR (Sep 2021 - Jun 2025) | Bachelor of Science in **Computer Science;** GPA: 3.7

University of Sheffield, Sheffield, UK (Sep 2023 - Jun 2024) | Exchange Program

Relevant Courses: AI for Networking and Security, Software Engineering, Software Testing, Intelligent Web, Software Reengineering, Data Structures, Algorithms, Operating Systems, Linear Algebra

Skills

Programming Languages: Python, C, JavaScript, HTML, CSS
Frameworks/Libraries: Flask, Node.js, Express, Bootstrap, OpenCV
Tools/Technologies: Docker, Git, MongoDB, PostgreSQL, Socket.IO

Experience

AI-Driven Software Development Interest Group, University of Oregon (Oct - Dec 2024)

- Collaborated with a professor-selected team to explore AI's potential in automating the software development process, utilizing tools such as **ChatGPT, Cursor**, and **bolt.new**

Learning Assistant, University of Oregon Computer Science Department (Sep 2022 - May 2023)

- Selected as a Learning Assistant for a course on C, Unix, and data structures due to high academic performance
- Hosted weekly office hours to clarify course concepts and provide targeted assistance to students, enhancing their understanding of the material
- Assisted students with debugging by utilizing problem-solving skills, attention to detail, and a solid understanding of the material
- Collaborated with the teaching board to evaluate student feedback and performance, contributing to improvements in teaching strategies and course structure

Projects

Eco-CI Integration Project (2025)

- Worked with **Intel** engineers to reduce the carbon footprint of CI/CD pipelines by integrating Eco-CI, an open-source GitHub Action for energy and emissions tracking
- Automated the Eco-CI integration and applied it across 10+ real-world GitHub workflows by developing a Python script using **ruamel.yaml**, storing the results in a PostgreSQL database via PostgREST

Class Schedule Planner, QuackHacks (24-hr Hackathon, 2025)

- Developed a web application that calculates and displays common available time slots between multiple class schedules uploaded
- Implemented backend logic in **Flask** for calculation of common availability and for file handling, using **BeautifulSoup** for parsing the schedules uploaded in an HTML format
- Collaborated in a five-person team, utilizing **Cursor** for AI assistance and **Git** for version control

Petition Digitization App, HackUO (24-hr Hackathon, 2024) – **Honorable Mention**

- Created a full-stack application that automates text extraction from PDFs of handwritten petitions
- Implemented an **image preprocessing pipeline** using **OpenCV** and **PIL** to optimize scanned document quality for OCR

Plant Recognition Web Application (2024)

- Engineered a dynamic full-stack application using **Node.js, Express, MongoDB**, and **Bootstrap**, designing user-friendly interfaces for recording, viewing, and managing plant sightings.
- Implemented real-time chat functionality with **Socket.IO**, allowing live discussions for plant identifications and storing messages in MongoDB for data persistence
- Created individual plant pages displaying plant details, with user authentication to allow only the original users to edit plant names and statuses and to disable editing and chat once the status becomes complete
- Optimized application routing and data handling, refining form submissions and resolving critical bugs to ensure smooth data flow and user interactions

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Languages: Korean (Native), English (Professional Working Proficiency), French (Limited Working Proficiency)