

Sewon Sohn

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Summary

Recent CS graduate actively seeking software engineering roles with a focus on backend and infrastructure. Experienced in building backend services, containerized deployments, and CI/CD automation through academic projects, hackathons, and industry collaboration. Open to relocation and available to start immediately.

Education

University of Oregon, Eugene, OR

Sep 2021 – Jun 2025

Bachelor of Science in **Computer Science** | GPA: 3.6

Honors: Excellence Scholarship

Relevant Courses: Operating Systems, Algorithms, Data Structures, Software Engineering, Software Testing, Linear Algebra

University of Sheffield, Sheffield, UK

Sep 2023 – Jun 2024

Exchange Program (Computer Science)

Skills

Languages: Python, C, JavaScript

Tools: Docker, PostgreSQL, MongoDB, Git, CI/CD, RESTful APIs

Frameworks: Flask, Node.js, Express

Projects

Eco-CI Integration Project

2025

- Collaborated 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+ GitHub workflows by developing a Python script using **ruamel.yaml**, storing the results in a **PostgreSQL** database via **PostgREST**

Local RAG Assistant

2025

- Initiated as a solo follow-up to a professor-selected team exploring AI-assisted software development tools
- Developed a fully local Retrieval-Augmented Generation (**RAG**) demo to solidify core understanding of LLM pipelines
- Integrated **Ollama**, **FAISS**, **nomic-embed-text**, and **Streamlit** to process markdown-based university data, generate vector embeddings, and enable local Q&A with **Mistral**

Class Schedule Planner, QuackHacks (24-hr Hackathon)

2025

- Developed a **Flask** web application to identify common free time between uploaded HTML class schedules, using **BeautifulSoup** for parsing
- Collaborated in a five-person team, using **Cursor** for AI assistance and **Git** for version control

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

2024

- Built a full-stack application with a 5-person team to automate text extraction from handwritten petitions
- Implemented an image preprocessing pipeline using **OpenCV** and **PIL** to improve **OCR** reliability and accuracy

Experience

Learning Assistant, Computer Science Department, University of Oregon

Sep 2022 – May 2023

- Supported 100+ students in **C/Unix and data structures** by clarifying system concepts and debugging code
- Collaborated with faculty to improve course delivery based on student feedback

Marketing Director (iNight) & Executive, International Student Association, University of Oregon

Jan 2022 – Jun 2023

- Coordinated a 6-person team to deliver a cultural event sold out with 200+ attendees
- Boosted Instagram followers by +16% (~1,850 → 2,150) through consistent branding and targeted content