

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.

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

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 (Intel Collaboration)

2025

- Partnered with Intel engineers to reduce the carbon footprint of **CI/CD** pipelines by integrating Eco-CI (open-source GitHub Action for energy/emissions tracking)
- Automated Eco-CI integration into 10+ GitHub workflows with a **Python** script (**ruamel.yaml**), storing measurements in a **PostgreSQL** database on **Google Cloud** via **PostgREST**

Local RAG Assistant (Personal Project)

2025

- Built a fully local Retrieval-Augmented Generation (**RAG**) demo from scratch to deepen understanding of LLM infrastructure
- 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 parse HTML schedules with **BeautifulSoup** and identify common free time across students
- Collaborated in a five-person team using **Git** and **Cursor** (AI coding IDE) for rapid prototyping

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

2024

- Built a full-stack application to automate text extraction from handwritten petitions with a five-person team
- 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 six-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