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

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
- Engineered a fully local **RAG** demo from scratch as a personal project 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 between students
- Collaborated in a five-person team using **Git** and AI-assisted coding (**Cursor**)

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