

# Sawan Srivastava

US Citizen | [sawan\\_srivastava@berkeley.edu](mailto:sawan_srivastava@berkeley.edu) | [Linkedin](#) | [Github](#) | [sawansri.com](http://sawansri.com)

## EDUCATION

### University of California, Berkeley

B.A. Data Science

May 2026

GPA: **3.8/4.0**

**Relevant Coursework:** Data 8 - Foundations of Data Science, CS61A - Structure and Interpretation of Computer Programs, Data C104 - Ethics of Data, Math 54 - Linear Algebra and Differential Equations

## EXPERIENCE

### Amazon Web Services (AWS)

Software Development Engineer Intern

June 2025 - August 2025

Bellevue, WA

- Core Search - AWS OpenSearch
- Working on approximation: <https://opensearch.org/blog/opensearch-approximation-framework/>

### University of California, Berkeley

Undergraduate Student Instructor (uGSI)

December 2024 - Present

Berkeley, CA

- Developing curriculum and maintaining infrastructure for the Linux System Administration (CS198), UC Berkeley's **premier Linux course** with **110+ enrollees** every semester.

### Open Computing Facility

Decal Committee Head

August 2024 - Present

Berkeley, CA

- Recruited and managed a team of volunteer instructors, fostering a collaborative teaching environment that increased student satisfaction ratings by 20% through leadership, mentorship, and team coordination skills.
- Implemented feedback-driven improvements to the curriculum and expanded outreach to prospective students, boosting enrollment by 15% and diversifying the student base by leveraging Google Forms for surveys, data analysis tools in Python, and targeted email campaigns with Mailchimp.

### Science of the Soul

Software Engineering Intern

December 2023 - May 2025

Petaluma, CA

- Automated infrastructure management for two enterprise data centers, reducing manual effort by using Bash scripts, Ansible, and Docker Swarm.
- Configured and maintained Docker cluster running applications including Jenkins (CI/CD), Kanboard (project management), and FreeSwitch (PBX).
- Administered Cisco switches, pfSense firewall, and IP PBX system, providing technical support for 150-200 users weekly.

## PROJECTS & ACTIVITIES

### PlantPedia | Python, AR, PlantNet API, Gemini LLM

October 2024

- Developed an **AR Plant Doctor** utilizing APIs such as PlantNet and Google's Gemini LLM to curate plant growth guidelines.
- Integrated custom neural networks and logistic models to provide precise plant care advice and diagnosis.
- Collaborated on backend design to support seamless interaction between AR features and plant data sources.

### EigenFood | Python, React Native, Gemini LLM, FastAPI, Google Places API

September 2024

- Developed a Python-based tool to convert Roman numerals to decimal values, integrating the Numbers API to display trivia about numbers.
- Engineered a robust algorithm capable of handling complex edge cases in Roman numerals with high accuracy.
- Enhanced user experience by designing an interactive CLI, achieving average response times under 200 milliseconds.

## SKILLS

**Languages:** Python, Java, C++, CUDA, SQL, Bash

**Technologies:** Linux, Docker, Git, PyTorch, NCCL, Numpy, CuPy, Pandas

**Concepts:** Distributed Systems, Network Administration, Python Scripting, Data Analytics, Machine Learning, Deep Learning, Natural Language Processing (NLP), Computer Vision, RAG, Model Training and Evaluation