

Sawan Srivastava

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EDUCATION

University of California, Berkeley

B.A. Data Science

May 2027

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)

Incoming Software Development Engineer Intern

June 2025 - August 2025

Bellevue, WA

Google Summer of Code

Open Source Developer

May 2025 - August 2025

University of California, Berkeley

Undergraduate Student Instructor (uGSI)

December 2024 - May 2025

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.

Roman-Numerals Converter | Python, Numbers 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: C++, Python, Java, SQL, Bash

Technologies: Docker, Git, Linux, PyTorch, FreeSwitch, SPSS, Numpy, Pandas

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