

Swayam Shah

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EDUCATION

University of California, Santa Cruz

Santa Cruz, CA

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Graduation: Expected June 2026

GPA: 3.8 / 4.0

Dean's List 2022 - 2025

SKILLS

Languages: Python, C++, C, Java, JavaScript, TypeScript, Bash, Dart

Frameworks & Libraries: React, Next.js, Express, Flask, FastAPI, Flutter

Tools & Platforms: Docker, AWS, GCP, Nginx, Git, CI/CD

Databases: PostgreSQL, SQL, SQLAlchemy

Other: REST APIs, GraphQL, MQTT, TCP/IP, HTTP, RISC-V Assembly, LaTeX

EXPERIENCE

AICG | DEVELOPER INTERN

July-September 2025 | USA Remote

- Built config-driven Python ELT pipelines (**PyODBC**, **Pandas**, **SQLAlchemy**) on AWS for real-time and batch processing, integrating SQL Server/Oracle into an S3 data warehouse — improved data availability **3×**, reduced manual integration **60%**, and cut deployment effort **50%**.
- Owned major features of **footage.ai** (AI image/video platform) — implemented generation models, custom video editor, **Cloudflare Workers**, and **AWS Lambda**; optimized async workflows, reducing compute cost by **30%**.

Niyantras LLC | SOFTWARE ENGINEERING INTERN

July-September 2023 | USA

- Built an Applicant Tracking System (ATS) for coding round plagiarism prevention and evaluation using **Python**, **REST APIs**, and **Java** — enabling automated assessments for **100+ monthly candidates**.
- Authored functional specifications and feature documentation for new modules adopted across multiple business clients.

SUMMARY

Passionate Software Engineer with hands-on experience building scalable web, cloud, and data systems using Python, React, and AWS. Skilled in full-stack development, CI/CD automation, and real-time distributed systems. Seeking to contribute to customer-centric engineering teams.

PROJECTS

Copark | WEBSITE

June 2025

- Designed and Dockerized **CoPark**, a microservice-based parking permit web app using **Next.js**, **Node.js**, **Express**, and **PostgreSQL**.
- Deployed on **AWS** with **REST** and **GraphQL APIs (99.9% uptime)**. Implemented **multilingual support (English, Spanish)**, managing **1,000+ active permits** across driver, admin, and enforcement portals — boosting user acquisition by **20%** in the first month.

EnrollSmart | GITHUB | WEBSITE

December 2024 - April 2025

- Developed EnrollSmart, a full-stack course availability tracker for UCSC using **Next.js**, **Python**, **Flask**, and **PostgreSQL**.
- Automated real-time seat monitoring for **100+ courses**, sending instant notifications to **200+ students** — reducing manual checks by **90%** and improving enrollment efficiency campus-wide.

Collaborative Drawing Game | GITHUB

December 2023

- Built a real-time collaborative drawing game (like skribbl.io) using **JavaScript** and **WebSockets**.
- Enabled **100+ concurrent users** with **<20 ms latency** via efficient canvas diff compression.

High performance REST API | GITHUB

September 2022

- Created a Python Flask REST API to deliver real-time weather data, supporting **10,000+ TPS (tested via Locust)** with **<50 ms latency** — improved engagement to 3 min average session time.

Home Automation System

May 2021

- Developed an IoT-based home automation system using **Flutter (UI)** and **ESP32 microcontrollers (backend)**.
- Integrated **MQTT** and **Matter** protocols for low-latency control and added scheduling, custom moods, and IFTTT-style automation.