

Swayam Shah

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EDUCATION

UNIVERSITY OF CALIFORNIA, SANTA CRUZ
BS IN COMPUTER SCIENCE
 Class of '26 | Santa Cruz, CA
 GPA: 3.8 / 4.0

SKILLS

Hard skills:

- Python • C++ • C • Bash • Git • HTML
- CSS • JavaScript • ReactJs • Express
- Flask • TCP/IP • Risc V Assembly
- REST API • Flutter • SQL • HTTP
- LaTeX • MQTT

Soft skills:

- Problem Solving • Communication
- Collaboration • Team Work • Discipline
- Learning aptitude • Time management

AWARDS

2021 167/2525 HPE Codingal
 2019 Winner NavRISE

PROJECTS

UCSC CLASS TRACKER | GITHUB

December 2024

- Developed a UCSC course availability tracker that monitors 100+ courses and sends real-time notifications, helping 200+ students secure spots in high-demand classes.
- Implemented automated alerts and a custom watch list, reducing manual course checks by 90% and improving UCSC students' registration efficiency.

COLLABORATIVE DRAWING GAME | GITHUB

December 2023

- Developed an engaging collaborative drawing game similar to skribbl.io using JavaScript canvas manipulations and WebSockets, allowing 100+ users to interact in real time with minimal latency.
- Engineered an interactive canvas feature enabling seamless user drawings transmitted across networked devices, applying advanced compression methods that minimized latency to under 20 milliseconds for all participants involved.

HIGH PERFORMANCE REST API | GITHUB

September 2022

- Created a sophisticated web platform using Python and Flask to showcase real-time weather data, resulting in a substantial increase in user engagement, with users spending an average of 3 minutes per session.
- API can handle up to 10k+ TPS with very low latency tested using locust.

HOME AUTOMATION APPLICATION

May 2021

- Created a prototype for a home automation application using Flutter to communicate with IOT devices.
- App uses **MQTT** and **Matter** protocols to add the ability to control Matter-enabled devices from any mobile device. It also adds features such as schedulers, moods, IFTT, etc.

EXPERIENCE

NIYANTRAS LLC | SOFTWARE ENGINEERING INTERN

July-September 2023 | USA

- Worked on creating an Applicant Tracking System(ATS) Software for preventing Plagiarism and increasing the Efficiency of an Online Coding round using **Python**, **Third-Party REST API**, and **Java**.
- This will be used for interviewing 100+ candidates a month and used by other businesses as an enterprise solution.
- Learned to make functional specifications and documentation documents for a new project/feature.

GIRL UP VADODARA | VOLUNTEER

March-December 2021 | Vadodara, India

- Created posts and graphics, which will be viewed by 100s of followers, to spread awareness about women empowerment in India using designing software like **Canva** and **Figma**.