Swayam Shah

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EDUCATION

UNIVERSITY OF CALIFORNIA, SANTA CRUZ
BS in Computer Science
Class of '26 | Santa Cruz, CA
GPA: 3.7 / 4.0

SKILLS

Hard skills:
• Python • C • Bash • HTML • CSS • JavaScript • Git • TCP/IP • Risc V Assembly • SQL • HTTP • MQTT • Flutter • ReactJs • LaTeX
Soft skills:
• Displine • Reasoning

AWARDS

2021	167/2525	HPE Codingal
2021	940	MLH Local Hackday
2019	Winner	NavRISE

EXPERIENCE

NIYANTRAS | Software Engineering Intern
July-September 2023 | Vadodara, IN
- Worked on creating an Applicant Tracking System(ATS) Software for preventing Plagiarism and increasing Efficiency of an Online Coding round using **Python**, **Third-Party REST API**, and **Java**.
- This is going to be used for interviewing 100+ candidates a month and would be used by other businesses as an enterprise solution.
- Learned to make functional specifications and documentation documents for a new project/feature.

AUTOSLUG | Club Member
September 2022-June 2023 | Santa Cruz, CA

- Contributed to ideating for projects ASL translation a hand gestures to natural language translator.
- Made use of different APIs such as **MediaPipe API** to recognize hand gestures.

GIRL UP VADODARA | Volunteer
March-December 2021 | Vadodara, IN

- Created posts and graphics to spread awareness about women empowerment in India using designing software like **Canva** and **Figma**.

PROJECTS

COLLABORATIVE DRAWING GAME | GitHub
December 2023
- Created a collaborative drawing game like skribbl.io using Javascript canvas manupulations and websockets.
- Users can draw on the canvas using their mouse and data is broadcast to all connected clients after compression to ensure low latency.
- Also added a gamemode to classify images using a CNN (Convolutional Neural Network) where user has to draw something from a prredefined list and wins once the AI is able to predict the drawing with a high accuracy.

HIGH PERFORMANCE REST API | GitHub
September 2022

- Created a website that shows weather data of location and time at the location, using **OpenWeatherAPI**, **Flask**, and **Python** to showcase the use of **REST API**.
- API can handle upto 10k+ TPS with very low latency tested using locust.

CHROME DINOSAUR INFINITE RUNNER | GitHub
January 2022

- Recreated the popular dino game of google chrome using **python**.
- Implemented keyframe animations and interfaced with the keyboard and mouse to create a game loop.
- Implemented a high score system by storing scores into a csv file.

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 ability to control Matter enabled devices from any mobile device. It also adds additional features such as schedulers, moods, IFTT etc.