Sarthak Rana

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Summary

Dedicated and curious Software Engineering student with a robust foundation in **C++**, **Python**, **JavaScript**, and **React**. Strongly inclined towards building intelligent systems with a focus on full-stack development, artificial intelligence, machine learning, and computer vision. Known for a fast learning curve, logical thinking, and the ability to break down complex problems into effective, real-world solutions. Thrive in collaborative environments and constantly seek opportunities to innovate, improve, and push the boundaries of technology.

Education

B.E in Computer Engineering
Dr D.Y Patil Institute Of Technology, Pimpri, Pune
2027 (Expected Graduation) | Current CGPA: 9.24
Class 12 (HSC) – Marathwada MitraMandal's College of Science, Pune, 84.5%
Class 10 (SSC) – Sant Tukaram English Medium School, **93.6%**

Projects

❖ **Atlasify – Interactive Country Data App**

   Live   Github

- Developed a dynamic web app that fetches and displays live country data using the REST Countries API.
- Integrated API calls, handled edge cases, and implemented optimized state management for smooth UI.
- Demonstrated full-stack ownership – designed, developed, tested, and deployed using
- modern JS practices.
- **Skills:** REST APIs, asynchronous JS, UI optimization, problem-solving.

❖ **Atmos Monitor – Real-Time Weather Tracker**

   Live   Github

- Built a React app to display live temperature, humidity, and weather conditions using OpenWeather API.
- Applied modular component architecture, error handling, and cloud data visualization.
- Developed and deployed a responsive interface that dynamically updates with user location or search input.
- **Skills:** React, real-time data handling, component-based design, API reliability testing

❖ **Mind Metrics – Smart Stress Detection App**

   [Live](#)   [Github](#)

- Developing an interactive web app that detects stress levels using a combination of user questionnaire responses and HRV data fetched from the Google Fit API.
- Implements dynamic UI, state management, and modular design using React and Tailwind CSS.
- Future features include real-time smartwatch integration for accurate physiological stress analysis and personalized coping recommendations.
- Demonstrates problem-solving, health-tech innovation, and full-stack development capabilities
- **Skills:** React, real-time data handling, component-based design, API reliability testing

❖ **StargazeX – Community-driven astronomy platform**

   [Live](#)   [Github](#)

- Built a full-stack web platform that connects astronomy lovers through a telescope-sharing network, solar flare forecasts, and upcoming stargazing events.
- Implemented secure user authentication, personalized dashboards, and dynamic UI using React (Vite), Tailwind CSS, and Firebase.
- Integrated AI-powered solar flare prediction model via backend APIs to deliver real-time, location-based space weather alerts
- **Skills:** React, Node.js, Firebase, Tailwind CSS, Express, API development, AI model integration, Framer Motion

Technical Skills

- **Languages:** C++, Python, JavaScript
- **Web Development:** HTML, CSS, JavaScript, TypeScript, React, Tailwind CSS, Astro
- **API Integration:** REST APIs, Google Fit API (OAuth2), FAST API
- **Database & Querying:** SQL, Relational Database Concepts
- **Data Science & Visualization:** NumPy, Pandas, Matplotlib, Seaborn
- **Tools & Platforms:** Git, GitHub, Docker, Netlify, Postman
- **Concepts:** Object-Oriented Programming (OOP), Data Structures & Algorithms, Responsive Design, Computer Networks, Operating System.

Certification

- **Responsive Web Design-freeCodeCamp**
  June 2024 | [View Credential](#)
- **JavaScript Essentials-Cisco Networking Academy**
  November 2024 | [View Credential](#)
- **Front End Development Libraries- freeCodeCamp**
  February 2025 | [View Credential](#)
- **API Collaboration Ace-Postman Academy**
  May 2025 | [View Credential](#)