

Sarthak Rana

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EDUCATION

Dr. D.Y Patil Institute of Technology, Bachelor of Engineering in Computer Engineering

July 2023 – July 2027

SKILLS

Languages: TypeScript/JavaScript, C++, Python

Backend & Frontend: HTML, CSS, Tailwind CSS, React.js, Next.js, React Native, Node.js, Express.js, MySQL, MongoDB, REST API, Socket.io, Firebase

Tools & Workflow: Git, GitHub, Postman, VS Code

EXPERIENCE

Open-Source Contributor, *OLake*

October 2025

- Updated deprecated Phosphor icons across the UI, ensuring visual consistency and alignment with the latest design assets.
- Added a success notification to the Job History page to improve UX consistency with the Job Logs flow.

PROJECTS

Bloom Buddy

- Built a cross-platform mobile app where users upload plant images for instant plant identification using the PlantNet API with Firebase as the backend.
- Created an intelligent care system where identified plant data is processed by OpenAI models to produce personalized guidance covering watering, sunlight, soil, fertilizing, and long-term maintenance.
- Added location-aware plant suggestions, with AI recommending the best plants to grow based on local weather, climate patterns, and seasonal conditions.
- Designed a scalable, modern architecture using React Native, ensuring seamless performance across Android and iOS devices.

StargazeX

- Developed a full-scale astronomy platform offering location-based stargazing condition analysis, including weather metrics, cloud cover, moon phases, and visibility predictions for planets, galaxies, and star clusters.
- Implemented a community event-hosting system enabling users to create astronomy meets, manage RSVPs, and coordinate local gatherings
- Created a space-focused newsroom delivering curated updates on celestial events, missions, and space science
- Designed a telescope-sharing network allowing enthusiasts to list, borrow, and schedule telescope access within the community.
- Architected scalable frontend using React (Vite), TypeScript, and Tailwind CSS with modular component design following software engineering best practices
- Designed backend services in Node.js/Express for telescope management, prediction endpoints, and user operations.

MindMetrics

- Built an interactive web application for stress detection using real-time activity and health metrics synchronized from Google Fit and a connected smartwatch
- Integrated OAuth2-based Google Fit APIs for continuous data flow, ensuring reliable syncing across devices.
- Implemented stress evaluation using the Perceived Stress Questionnaire (PSQ).
- Built responsive UI components with React and Tailwind CSS, implementing dynamic state management and error handling