

SARTHAK KUMAR

Full-Stack Developer | Software Engineering

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TECHNICAL SKILLS

Languages: C++, C, Python, JavaScript, SQL
Web & Frameworks: HTML, CSS, Bootstrap, Next.js, React, Tailwind CSS, Node.js, Express.js
Databases & Cloud: MySQL, MongoDB Atlas, Vercel
Tools & Other: Git, Clerk Auth, Three.js/React Three Fiber, REST API integration

PROJECTS

Zenith Quest — Real-Time Celestial Tracking Platform Deployed

Solo project | Next.js, TypeScript, Node.js/Express, MongoDB Atlas, Three.js, OpenAI API

- Architected and independently built a full-stack web platform that generates a personalized “Sky Score” by combining real-time astronomy, satellite, weather, and light-pollution data.
- Integrated 6 external APIs and data sources (AstronomyAPI, N2YO, NASA APIs, Open-Meteo, a light-pollution dataset, and the OpenAI API) to power live sky-visibility scoring and AI-generated narration.
- Built an interactive 3D sky visualization using Three.js/React Three Fiber with Leaflet.js mapping and Recharts data visualization; implemented Clerk authentication and MongoDB Atlas persistence; deployed on Vercel.

Cross Campus — Campus Networking & Collaboration Platform In Progress

Next.js, React.js, TypeScript, Tailwind CSS, Node.js, Express.js, MySQL, JWT Auth, Vercel

- Building a full-stack campus networking platform enabling students to connect across campuses, discover and participate in events, collaborate on projects, and engage with the student community.
- Implementing a responsive UI, secure JWT-based authentication, interactive dashboards, community features, and real-time communication capabilities.
- Designing the backend with Node.js/Express.js and a MySQL database, exposed through REST APIs, with deployment on Vercel.

Blog It — Full-Stack Blogging Platform

React.js, TypeScript, Vite, Tailwind CSS, shadcn/ui, Supabase, PostgreSQL, AI Integration

- Built a full-stack blogging platform allowing users to create, edit, publish, and manage posts through a responsive interface, with AI-integrated features.
- Used Supabase (PostgreSQL) for data storage and Supabase Authentication for secure user sign-in; built the UI with shadcn/ui and Tailwind CSS on a Vite + React/TypeScript frontend.

Eventio — Event Discovery Website

HTML5, CSS3, JavaScript, Node.js, MySQL

- Built a web platform for discovering and browsing events, filterable by category, location, and interest, backed by a Node.js server and MySQL database.

EXPERIENCE

Member, PLACVS — SRM Institute of Science and Technology Feb 2025 – Present

- Volunteered across 20+ campus placement processes, supporting workshops, seminars, and placement-related activities in coordination with a student team.

Intern — Navjyoti India Foundation, Bawana Jul 2026

- Contributed to the “Classroom Engagement & Success Story of Alumni” project during a one-week internship in community education.

ACHIEVEMENTS & COMPETITIONS

- Smart India Hackathon (SIH), 2025 — Shortlisted at the university level.
- Ossome Hacks, organized by GitHub Community SRMIST — Participant, April 2026.

EDUCATION

B.Tech, Computer Science and Engineering — SRM Institute of Science and Technology Aug 2024 – Present

CGPA: 8.1

Senior Secondary (12th), Modern Public School, Bhiwadi — 85% Apr 2023 – Mar 2024

Secondary (10th), Modern Public School, Bhiwadi — 75% Apr 2021 – Jun 2022

CERTIFICATIONS

- Data Structures, Python Programming Essentials, and HTML/CSS/JavaScript for Web Developers — Coursera

EXTRACURRICULAR

- Member, Computer Society of India (SRM-KTR) — organized tech events and workshops; NSS Outreach Participant (Education).