

Sahiljeet Singh Kalsi

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TECHNICAL PROFICIENCIES

Front-End Development

- HTML5, CSS3, JavaScript (ES6+), TypeScript
- knowledge of React.js for building scalable UIs, with state management (Context API/Redux)
- Next.js for full-stack applications (SSR, SSG, API Routes)
- Skilled in responsive design using Tailwind CSS
- Material-UI (MUI), Shadcn UI for modern, customizable UI components
- Currently expanding into Three.js for 3D graphics and interactive web experiences

Back-End Development

- Developed RESTful APIs and server-side logic using Node.js and Express.js
- Integrated authentication, payment gateways, and third-party services

Databases

- SQL: Designed and optimized relational databases with PostgreSQL
- NoSQL: Built flexible data models using MongoDB and Mongoose

Languages

- Python
- C/C++ (Low-Level Programming, Data Structures & Algorithms)
- JavaScript (ES6+)
- Java

Tools & Platforms

- UI Frameworks: Tailwind CSS, Material-UI, Shadcn UI
- DevOps: Firebase (Authentication, Realtime DB, Hosting), Vercel
- Version Control: Git, GitHub
- IDEs: Android Studio, VS Code
- Validation: Zod (for schema validation and form handling)
- API Testing: Postman (for API development and debugging)

INTERESTS

Web Development, Artificial Intelligence, Content Writing, Psychology, Philosophy, Human Behaviour

EDUCATIONAL QUALIFICATION

Don Bosco Institute of Technology (Guru Gobind Singh Indraprastha University)

New Delhi, India

Bachelor of Computer Application

August 2022 - July 2025

Ranked among the top 10 students in the college; 50th rank in the university with the CGPA 9.01

Air Force Senior Secondary School

12th Grade (PCM with Computer Science)

PROJECTS

ImageAI - AI-Powered Image Editing Platform (Next.js, TypeScript, Cloudinary AI, Tailwind CSS)

[Live Link](#)

- Built a cutting-edge image editing platform using Next.js 14 with TypeScript, delivering seamless UX with Tailwind CSS.
- Integrated **Cloudinary AI** to power advanced image transformations — including **image generation, background removal, object removal, object recolouring, and image restoration**.
- Implemented secure user authentication via **Clerk**, ensuring personalized editing history for each user.
- Added real-time notifications using **React-Toast** for instant feedback during image processing.
- Focused on clean UI/UX with responsive design, ensuring smooth performance across devices.

CipherSprint - Typing Speed Test Website (React, Firebase, Tailwind CSS)

[Live Link](#)

- Built a typing speed test platform with React.js and Firebase, featuring real-time word-per-minute calculations, performance graphs, and user-specific stat tracking. Integrated Tailwind CSS for responsive design and MUI for enhanced UI components like comparison modals and notifications.
- Added theme customization options, stored in local storage, with dynamic headers and toast notifications based on user activity and time of day, ensuring a secure, personalized, and engaging experience.

Divine Pellets - Biomass Energy Website (React.js, Node.js, Tailwind CSS)

[Live Link](#)

- Created a responsive website showcasing biomass pellets as a sustainable energy solution with clean UI and intuitive navigation.
- Designed sections like Our Story, What We Offer, Why Choose Us, and a Scientific Comparison of pellets vs. coal.
- Integrated a Contact Us form for seamless communication and added smooth animations using Framer Motion for a polished look.
- Focused on a user-friendly platform combining functionality and aesthetics.

Saffron Stories - Blog Platform (React.js, Firebase, Tailwind CSS)

[Live Link](#)

- Developed a blog platform that supports creating, reading, updating, and deleting blogs, with real-time updates and secure login powered by Firebase. Designed an intuitive UI using React.js and Tailwind CSS, including day/night modes for optimal user comfort.
- Focused on seamless user experience, combining creativity with functionality to cater to writers and readers, making it a dynamic space for sharing and exploring content.

LEADERSHIP AND ACTIVITIES

- **Class Representative (2023 - Present):** Represented the class in academic meetings and coordinated activities.
- **Playwriting and Directing:** Wrote and directed plays on environmental awareness, showcasing creativity and communication skills.
- **Master of Ceremony & Event Team Member (IT Rang Fest):** Hosted events and contributed to organizing a successful IT Fest.
- **Rotaract Club Member:** Organized a blood donation camp and distributed essentials to underprivileged children.
- **Hackathon (IIITD):** Developed a secure backend system using Node.js, Express.js, MongoDB, and JWT, contributing to the event's success.