

# SANSKRITI

## Full Stack Developer

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GitHub

### EDUCATION

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**Bachelor of Science - Computer Science, BITS Pilani**  
• 8.87 CGPA

08/2024 – Present

### WORK EXPERIENCE

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**ScalerConnect 2.0 - Student Collaboration & Grievance Redressal Platform,**  
**Lead Developer | Scaler School of Technology**

07/2025 – Present

- Currently building the refined version of ScalerConnect, evolving it into a full-stack MERN application (MongoDB, Express.js, React, Node.js).
- Designing a centralized collaboration hub intended to serve 800+ students, bringing announcements, resources, and discussion forums into one platform.
- Developing a grievance redressal system with structured ticketing workflows to ensure issues can be escalated and resolved efficiently.
- Enhancing the UI/UX with React hooks, Context API, and responsive design principles for accessibility.
- Integrating backend APIs for real-time communication and scalable data handling.
- Impact (Planned): ScalerConnect 2.0 is going to become the primary student portal, fostering collaboration across 800+ learners, streamlining communication, and enabling transparent grievance handling.

**Open-Source Contributor : GSSOC 25 (GirlScript Summer of Code)**

05/2025 – 08/2025

- Contributed to production level open source repositories such as ResQApp (emergency response app) and Streamlit apps for analytics and dashboards.
- Improved ResQApp & Streamlit by optimizing backend logic and fixing bugs, which enhanced app reliability in emergency use cases.
- Collaborated in an agile, distributed team, submitting pull requests, reviewing code, and managing GitHub issues.
- Wrote clean, modular Python & JavaScript code to support scalability.
- Impact: Strengthened widely-used open-source projects, directly benefiting hundreds of developers and end-users while also promoting community-driven innovation.

**Drone Lab Project - 'Air-Avaat' (Fire-Fighting Drone)**

08/2024 – 12/2024

- Contributed to the software development of Air Avaat, an autonomous drone designed for firefighting and emergency response.
- Built computer vision modules using Python & OpenCV to detect fire and smoke zones in real time, improving response accuracy.
- Integrated automation workflows with sensor data (temperature, gas, and infrared) to enable autonomous navigation in hazardous areas.
- Assisted in developing control algorithms that reduced human intervention, increasing safety for rescue teams.
- Collaborated with the hardware team to sync the software with motors, cameras, and controllers, ensuring seamless automation.
- Impact: The project demonstrated a proof-of-concept fire-fighting drone capable of identifying hazards and reducing emergency response time by automating surveillance and initial firefighting actions.

## SKILLS

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### Tech-Languages

- Java, C++, Python, JavaScript.

### Language Proficiency

- Hindi
- English
- Spanish

### Tools/Frameworks

- React.js, Node.js, Express.js, Tailwind CSS, Bootstrap, Databases NumPy, Pandas, Matplotlib, Scaborn, Scikit-learn

### Version Control

- Git, GitHub, Firebase, Postman, VS Code, Google Colab, Replit, Canva, Render

## CP TRACKER

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### Leetcode

- Current Rating: 1524 (Max)

### Codechef

- Highest Rating: 1463 (2 Star★ ★ )

### CodeForces

- Max Rating: 1045

### AtCoder

- Max Rating: 131

## PROJECTS

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### 1. ScalerConnect

08/2024 – 06/2025

- Built a student feedback platform with protected routes. Integrated Firebase Auth & Context API

### 2. Brain Tumor Detection

- Developed ML model for tumor classification. Conducted RDA and visualization.

### 3. JobSage - Job Tracker

- Job app dashboard with resume parsing and Kanban UI.

### 4. My-Portfolio-Website, Current

- A personal portfolio website built with React, TailwindCSS, and Framer Motion to showcase my journey as a developer, achievements, competitive programming milestones, and projects.

### 5. NewsSentiment Analyzer

- An AI-powered tool that analyzes news articles and classifies their sentiment (positive, negative, neutral) to help users track market or social trends.

## LEADERSHIP & ACTIVITIES

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### - CORE Member

- E-Cell, SST

### - Ex-CORE

- Food Committee, SST

### - CORE Team Member

- Drone Club, SST

### - Ex-Member

- Creator's Club Elite

### - Dy. Head Girl

- Radiant International School

## LICENSES & CERTIFICATIONS

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Postman Student API Fundamentals Expert