

SIDDHARTH SINGH

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Education

Vellore Institute of Technology, Bhopal

2022 - 2026

B.Tech in Computer Science and Engineering

CGPA: 8.3/10

Saint John's Academy, Prayagraj

2020 - 2021

Intermediate (Class XII)

96.5%

Saint John's Academy, Prayagraj

2018 - 2019

High School (Class X)

94.2%

Experience

India Space Lab

February 2026 -

Winter Internship and Training Program

- Selected among 1045 candidates for competitive national space technology internship program.
- Training in Advanced Drone Technology, CanSat/CubeSat (Student Satellite), Rocketry, Remote Sensing (GIS), and Disaster Management.
- Will complete technology-focused project applying learned concepts in practical implementation.
- Participating in 30-day structured program to enhance space education and technical skills.

Projects

Employee Shift Manager App | *MongoDB, Express.js, React.js, Node.js*

November 2024

- Developed a full-stack web application for digital employee scheduling with a drag-and-drop calendar interface using ScheduleX and React 19.
- Built RESTful APIs using Express.js and MongoDB with role-based access and secure data handling.
- Implemented conflict detection and automated shift swaps to improve workforce productivity.

Real-Time Chat Application | *MongoDB, Express.js, React.js, Node.js*

May 2025

- Engineered a real-time chat platform supporting private and group messaging using Socket.io.
- Implemented JWT authentication and bcrypt encryption for secure login and authorization.
- Designed a responsive React.js interface for seamless real-time communication.

Yoga Pose Detection System | *Python, OpenCV, MediaPipe, Flask*

September 2025

- Developed a real-time yoga pose classification web application with live webcam input using OpenCV.
- Built an ensemble ML model using Decision Tree, KNN, and Random Forest via VotingClassifier.
- Extracted 33 body landmarks per frame using MediaPipe and displayed confidence scores in real time.
- Achieved sub-second prediction latency for instant visual feedback.

Technical Skills

Languages: Java, Python, C++, JavaScript, HTML/CSS, SQL

Developer Tools: Node.js, Express.js, React.js, MongoDB, PostgreSQL, jQuery, EJS

Technologies/Frameworks: MySQL, REST APIs, Git, Github, Excel

Leadership / Extracurricular

IoT Club, VIT

2022 - 2025

PR & Outreach Team Co-Lead

VIT Bhopal University

- Co-led the PR & Outreach team, planning and executing promotional strategies to increase event visibility and participation.
- Coordinated with internal teams and external stakeholders to manage communications, partnerships, and outreach campaigns.
- Led a team of members, delegating tasks, tracking progress, and ensuring timely execution of PR activities.

Certifications

Unity and C# Basics – META; OCI AI Foundations – Oracle; OCI Generative AI – Oracle; Cyber Physical Systems – NPTEL