

# Siddharth Singh

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## EDUCATION

<b>VIT Bhopal University</b> <i>B.Tech in Computer Science and Engineering</i>	2022 – 2026(Exp.) CGPA: 8.30 / 10
<b>Saint John's Academy, Prayagraj</b> <i>Intermediate (Class XII)</i>	2020 – 2021 96.5%
<b>Saint John's Academy, Prayagraj</b> <i>High School (Class X)</i>	2018 – 2019 94.2%

## PROJECTS

<b>Employee Shift Manager App</b>	<i>MongoDB, Express.js, React.js, Node.js (MERN), Tailwind CSS</i>
<ul style="list-style-type: none"><li>– Developed a full-stack shift-management web application enabling employers and employees to manage schedules, shifts, availability and assignments in real-time..</li><li>– Architected a RESTful backend with Express.js and MongoDB for data persistence of users, shifts and availability.</li><li>– Built a dynamic React.js frontend, styled with Tailwind CSS for a clean responsive UI, integrating with backend APIs.</li><li>– Implemented business logic allowing automatic conflict detection, shift swapping and availability-based shift assignment, improving operational efficiency.</li></ul>	
<b>Real-Time Chat Application</b>	<i>Node.js, Express.js, React.js, Socket.io, MongoDB, JWT, Tailwind CSS</i>
<ul style="list-style-type: none"><li>– Developed a full-stack real-time chat application enabling instant one-to-one and group messaging with live socket-based updates.</li><li>– Implemented secure user authentication using JWT and bcrypt, ensuring encrypted data transmission and session safety.</li><li>– Designed a responsive React.js frontend with Tailwind CSS and dynamic message rendering for smooth UX.</li><li>– Built RESTful APIs with Express.js and MongoDB for managing users, chats, and message persistence.</li></ul>	
<b>Yoga Pose Detection System</b>	<i>Flask, Python, OpenCV, MediaPipe, scikit-learn (VotingClassifier), HTML/CSS, JavaScript</i>
<ul style="list-style-type: none"><li>– Built a real-time yoga posture classification web app using webcam input and MediaPipe for human pose landmark extraction.</li><li>– Trained an ensemble ML model (Decision Tree, KNN, Random Forest) achieving high accuracy in pose recognition and stability across multiple users.</li><li>– Integrated Flask backend for live video streaming, prediction display with confidence score, and responsive frontend interface.</li><li>– Enabled users to get instant feedback on pose correctness for fitness and wellness improvement.</li></ul>	

## TECHNICAL SKILLS

**Languages:** Java, Python, C++, Javascript, C#, HTML/CSS  
**Frameworks & Libraries:** Node.js, Next.js, React.js, Flask, Phaser3, Bootstrap, .NET Core  
**Databases & Tools:** MySQL, MySQL Server, REST APIs, Docker, Git, GitHub, Unity,

## CO-CURRICULAR AND ACHIEVEMENTS

- Gold Medalist in the SOF International Olympiad of Mathematics(State Level).
- All India topper in ISC Computer science and mathematics
- Core member of the IoT Club and Fusion Club, Public Outreach Department at VIT, selected from over 100 applicants. Organized multiple events and secured renowned speakers.
- Elected as a Prefect at Saint John's Academy, led a council of 20 members and coordinated major school events.
- Futsal team member-Participant at AAHVAAAN

## CERTIFICATIONS

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

## LANGUAGES

English - Native, Hindi - Native