

# Siddharth Singh

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## EDUCATION

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### VIT Bhopal University

*B.Tech in Computer Science and Engineering*

2022 – Present

*CGPA: 8.30 / 10*

### Saint John's Academy, Prayagraj

*Intermediate (Class XII)*

2020 – 2021

*96.5%*

### Saint John's Academy, Prayagraj

*High School (Class X)*

2018 – 2019

*94.2%*

## TECHNICAL SKILLS

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**Languages:** Java, Python, C++, Javascript, CSS, SQL

**Tools & Frameworks:** React, Unity, Phaser3, Git

## PROJECTS

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### Fruit Ninja with Hand Gestures

*Javascript, PoseNet, Git*

- Developed a motion-sensing system using algorithms like Ellipse Detection and Gaussian Filtering.
- Optimized gameplay to achieve a smooth 60 FPS and reduced loading times.
- Designed the front-end UI for in-game menus, score displays, and animations.

### Endless Runner in VR

*Unity, C#, XR Toolkit*

- Built a VR game using C# and the Unity Game Engine, incorporating the XR Interaction Toolkit and XR Rig.
- Designed and created three immersive levels with interactive environments.

### Yoga Pose Detection using ML Flask Web App

*Python, Flask, MediaPipe, scikit-learn, HTML/CSS, JavaScript*

- Built a real-time Yoga Pose Detection system using MediaPipe, OpenCV, and an ensemble ML model.
- Developed the front-end web UI with HTML, CSS, and Bootstrap, featuring live webcam streaming and real-time pose feedback.
- Integrated the ML model with a Flask backend to handle video processing and prediction.

## CO-CURRICULARS AND ACHIEVEMENTS

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- 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

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Unity and C# basics - META; Fundamentals in AI & ML; Python Essentials; Cyber Physical Systems – NPTEL

## LANGUAGES

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English - Native, Hindi - Native, Japanese - N5