

# Yash Tilwani

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## Education

### VIT Bhopal University

Bachelor of Technology in Computer Science and Engineering (CGPA: 8.53/10)

Oct 2022 - May 2026

Bhopal, MP

### Macro Vision Academy

Senior School Certificate Examination (C.B.S.E Class XII) - 79.6 percentage

April 2021 - April 2022

Burhanpur, M.P

### Macro Vision Academy

Secondary School Examination (C.B.S.E Class X) - 83.8 percentage

April 2019 - April 2020

Burhanpur, M.P

## Technical Skills

**Languages:** C++, Python, Java, HTML, CSS/Tailwind CSS, JavaScript.

**Technologies:** React.js, MongoDB, Node.js, Next.js, SQL, Docker, Git.

**Tools:** TensorFlow, PyTorch, OpenCV, Google Colab.

**Concepts:** Object-Oriented Programming, Data structures and Algorithms, Cloud Computing, DevOps, Cyber Security, Monitoring system.

## Projects

### IoT Weather System | React.js, Tailwind CSS, JavaScript, Arduino, API Integration

October 2023

- Built a responsive weather app with React, Tailwind CSS, and JavaScript, delivering accurate updates to 100+ users.
- Integrated high-precision sensors for key weather parameters, ensuring 99% data accuracy.
- Created a user-friendly dashboard, boosting engagement by 30%.
- Ensured 99.9% uptime with thorough testing and deployment across 5+ locations.

### Carpool | React.js, Python, Docker, MongoDB, Node.js

July 2024

- Built a carpool web app with React, Tailwind CSS, and JavaScript, improving user experience.
- Implemented Python server-side logic and integrated MongoDB to manage 25+ weekly carpool rides.
- Deployed with Docker, ensuring 99.5% uptime and enhancing user experience by 40%.

### Real-Time Chat Application | React.js, Node.js, Express, MongoDB, Socket.io

May 2025

- Developed a real-time chat platform with 1-on-1 and group messaging, typing indicators, and online status.
- Secured authentication with JWT and bcrypt; built responsive UI using Tailwind CSS
- Implemented WebSocket communication using Socket.io for instant message exchange and status sync.
- Structured RESTful APIs and deployed full-stack app via Vercel (frontend) and Render (backend).

## Extracurricular, Certifications and Training

- Marketing Analytics by Prof. Swagato Chatterjee — IIT Kharagpur (NPTEL).
- Experiential Learning at Hyderabad Pune: Workshops Learning related to various domains of CSE.
- Cloud Computing by Prof. Soumya Kanti Ghosh — IIT Kharagpur (NPTEL).
- Bits and Bytes of Computer Networking by Google (Coursera).
- DevOps Fundamentals by IBM.
- Full Stack Developer MERN by SmartInternz.

## Activities

### Gujarati Club, VIT Bhopal | Event Management

Aug 2023 - Mar 2025

- Served as the Event Lead for the club's Garba Night 2024.
- Additionally, led club activities during Advitya'24, contributing to the fest's success.

### Ramanujan Club, VIT Bhopal | Member of Research Team

Jan 2024 - Mar 2025

- Worked alongside a team to explore and analyze cutting-edge trends and technologies in the mathematics sector.
- Collaborated with a 10+ member team in the Ramanujan Club to research emerging math trends and present findings to faculty, ensuring timely completion of milestones.