

VIRAL VAGHELA

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EDUCATION

B.Tech, Computer Science, VIT Bhopal University Oct 2022 – Jul 2026 (Expected)
CGPA: 8.49

12th CBSE, Shri Gujarati Samaj A.M.N School, Indore Jun 2021 – Apr 2022
Percentage: 94%

10th CBSE, Shri Gujarati Samaj A.M.N School, Indore Jun 2019 – Apr 2020
Percentage: 93%

TECHNICAL SKILLS

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

Web Technologies: React.js, Next.js, Node.js, Express.js, Django, FastAPI, Bootstrap

Databases & Storage: MongoDB, PostgreSQL, SQLite

Cloud & DevOps: AWS (EC2, S3), Google Cloud Platform, Docker, Git/GitHub

Concepts: Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Computer Networks, Machine Learning (Basics), GUI(Qt)

PROJECTS

ShelfSpace — Next.js, React.js, Tailwind CSS, TypeScript Jun 2025 – Sep 2025

- Built a reading dashboard combining book tracking, AI-recommendations, and discussions, tested by 25+ users.
- Architected a modular Next.js system with centralized state management across settings, chat, and dashboard, reducing code redundancy by 30% and improving maintainability.
- Delivered an AI-powered assistant with contextual modes (analysis, recommendations, discussions) and improved user engagement by 20% through dark mode, responsive layouts, and adaptive sidebar navigation.

DSA Visualizer — C++, Qt, Object-Oriented Programming, GUI Development Sep 2025 – Oct 2025

- Developed an interactive visualization platform for 5+ data structures to enhance algorithm learning.
- Implemented six sorting algorithms with animated step-by-step execution using QPainter and QTimer, improving clarity of algorithm flow.
- Architected a modular Qt-based GUI with reusable OOP components, enabling integration of multiple data structure visualizations in a single platform.

Settlit — HTML, CSS, JavaScript, Node.js, Express.js Sep 2023 – Oct 2023

- Designed an expense management platform enabling group-based tracking, tested with 50+ student users.
- Implemented backend APIs for real-time transaction logging and persistent group sessions, handling 100+ simulated entries reliably.
- Built a cross-browser interface with optimized user flows, improving accessibility and usability across multiple devices.

CERTIFICATIONS & ACHIEVEMENTS

- Advanced to institute-level finals of the Smart India Hackathon (SIH) in 2023 and 2024, presenting scalable solutions to real-world problem statements.
- Earned professional certifications: AWS Solutions Architect, MongoDB Database Administrator, and Cloud Computing.
- Led cross-functional teams of 5–8 members in technical projects and hackathons, driving end-to-end development and timely delivery.