

# ABHIJAY KUMAR SHAH

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## Education

<b>Vellore Institute of Technology</b> B.Tech in Computer Science & Engineering	<b>Jul 2026 (Expected)</b> CGPA: 8.43 / 10.0
<b>DAV Public School, Dudhichua</b> Senior Secondary (Class XII)	<b>2019–2021</b> CGPA: 9.20 / 10.0
<b>DAV Public School, Surya Vihar</b> Secondary (Class X)	<b>2018–2019</b> CGPA: 9.85 / 10.0

## Technical Skills

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

**Backend & Databases:** Node.js, Express.js, REST APIs, WebSockets, MongoDB, PostgreSQL

**Cloud, Tools & Networking:** AWS (EC2, S3, Lambda), JWT Authentication, Docker, Git, Postman

## Projects

### Comfortable Stay — Hotel + Restaurant Alliance

HTML, CSS, JavaScript, Chart.js — Backend via External Services (MERN Planned)

[\[Link\]](#)

- Designed a QR-driven alliance platform improving discoverability for PGs and budget hotels via bill-based free stay eligibility.
- Implemented business logic for eligibility checks, room-tier allocation, analytics dashboards, and booking workflows.
- Planned backend migration to REST APIs, database-backed persistence, validation, and role-based access.

### BACKEND STORE RATING PLATFORM

Node.js, Express.js, PostgreSQL, JWT — Aug 2025

[\[Link\]](#)

- Designed and developed RESTful APIs with Node.js and Express.js to support role-based access for admins, users, and store owners.
- Implemented secure authentication and authorization using JWT, input validation, and role-based permissions (RBAC).
- Architected a normalized PostgreSQL schema enabling scalable store management, ratings, filtering, and sorting operations.

### ENGLISH TUTOR AI

Node.js, Socket.IO, Web Speech API, OpenRouter — Apr 2025(in progress)

[\[Link\]](#)

- Built a real-time backend system using Node.js and Socket.IO to handle bi-directional voice interactions.
- Integrated AI-powered language processing via OpenRouter for grammar correction, pronunciation feedback, and vocabulary enhancement.
- Implemented event-driven communication and session handling to support low-latency, multi-user interactions.

### Advanced Multi-Video Player

JavaScript, Browser APIs, Performance Optimization — Windows and MacOS

[\[Link\]](#)

- Engineered a multi-instance video playback system supporting up to 9 concurrent players, synchronized controls, and playback speeds up to 10× using optimized event handling.
- Implemented intelligent file validation and corruption detection, ensuring safe loading with real-time error reporting and recovery mechanisms.
- Designed resource-efficient state and memory management to maintain stable performance across Windows and macOS, including real-time performance monitoring and cleanup of unused media resources.

## Leadership / Achievements

### CatCatchCode

**Jul 2025 – Present**

Team Lead | [catcatchcode.online](#)

VIT

- Founded an ed-tech initiative focused on structured technical learning for college students.
- Led a 5-member team to produce 100+ technical learning videos, impacting 100+ students.
- Expanded content distribution across LinkedIn, YouTube, Instagram, and GitHub, building an early-stage tech community.

### Founder & Project Lead, Satsang Vachan Satsang Seva

**Sept 2025 – Present**

Digital Preservation & Social Impact Initiative | [Project Link](#)

Self-Directed

- Leading a digital preservation initiative to convert decades of archival literature into modern visual and multimedia formats.
- Collaborating with contributors to produce posters, magazines, podcasts, and animated content for large-scale audiences.
- Applying AI-assisted summarization to transform long-form textual material into concise, accessible visuals.
- Designing a scalable content platform focused on accessibility, maintainability, and positive social impact.

## Certifications

MERN Full Stack Certificate — Apr 2025 [\[Link\]](#)