

# ABHIJAY KUMAR SHAH

+917879028316    abhijayshah74@gmail.com

linkedin.com/in/abhijay-shah-75a5a7251    github.com/Abhijayshah

## 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

### FULLSTACK STORE RATING PLATFORM

Node.js, Express.js, PostgreSQL, JWT — Aug 2025 (in progress adding to Hotel)

[\[Link\]](#)

- 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.

### Comfortable Stay — Hotel + Restaurant Alliance

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

[\[Link\]](#)

- Designed a QR-driven hotel-restaurant alliance platform to solve real-world discoverability issues for PGs and budget hotels, enabling customers to claim free 1-day stays based on restaurant bill thresholds.
- Implemented client-side business logic for eligibility checks, room-tier allocation (waiting room / non-AC / AC sleeper), analytics dashboards, and booking workflows, with data currently handled via external backend sources.
- Architected the system with a backend-first roadmap, planning migration to REST APIs (bookings, restaurants, ratings), database-backed persistence, validation, and role-based access for hotels and partners.

### 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 On Going**

Team Lead

VIT

- Founder of CatCatchCode.online — an ed-tech initiative creating structured tech learning for college students.
- Built a 5-member team producing 100+ technical learning videos, reaching 100+ students. — Expanded cross-platform presence to 50+ followers across LinkedIn, YouTube, Instagram, and GitHub.
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## Certifications

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