

# 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: 8.44 / 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 & Frontend:** C++, Python, JavaScript (ES6+), SQL, React.js, Tailwind CSS, Context API  
**Backend & Databases:** Node.js, Express.js, MongoDB (Mongoose), PostgreSQL, REST APIs, WebSockets  
**Tools, Cloud & Security:** Git, Docker, Postman, AWS (Basic), JWT, RBAC, OpenRouter/Gemini API

## Projects

- Rately — Store Rating Platform & AI Chatbot** — *MERN Stack, Tailwind CSS, RBAC, OpenRouter API and Gemini API* [\[Link\]](#)
- Architected a scalable platform featuring **Role-Based Access Control (RBAC)** to manage distinct permissions for Admins, Owners, & Users.
  - Integrated a **context-aware AI Chatbot** via OpenRouter API to assist users, enhancing platform engagement & support navigation.
  - Implemented enterprise-grade security using **JWT, Helmet, & Rate Limiting** to protect against unauthorized access & DDoS attacks.
  - Designed a modular frontend with **React & Tailwind CSS**, utilizing Context API for seamless global state management.
- Scholara — AI-Enabled Academic Workflow System** — *MERN Stack, JWT, RBAC, Document Analysis* [\[Link\]](#)
- Architected a **Full-Stack Workflow Platform** with **Role-Based Access Control (RBAC)**, managing secure distinct portals for Students (Submission) and Faculty (Review).
  - Engineered a **state-driven approval pipeline** (Proposal → Approval → Final Upload), utilizing **RESTful APIs** to enforce validation rules at each stage.
  - Developed a **Real-Time Faculty Dashboard** using React & Tailwind to visualize submission metrics, track pending reviews, and monitor student progress.
  - Integrated an **Automated AI Analysis Engine** to parse PDF uploads, validating document structure and generating instant compliance feedback for students.
- Comfortable Stay — Hotel Plus Restaurant Alliance** — *HTML, CSS, JavaScript, Chart.js* [\[Link\]](#)
- Designed a QR-driven alliance platform improving discoverability for PGs & budget hotels via bill-based free stay eligibility.
  - Implemented eligibility rules & room-tier allocation (waiting room, non-AC, AC beds) with real-time dashboards & booking workflows.
  - Planned backend migration to REST APIs, database-backed persistence, validation, & role-based access.
- Advanced Multi-Video Player** — *JavaScript, Performance Optimization, Browser APIs* [\[Link\]](#)
- Engineered a multi-instance video playback system supporting 9 concurrent players with synchronized controls & 10× playback speed.
  - Implemented intelligent file validation & corruption detection, ensuring safe loading with real-time error reporting mechanisms.
  - Designed resource-efficient state & memory management to maintain stable performance across Windows & macOS.

## Experience / Leadership – Achievements

- CatCatchCode** **catcatchcode.online – Jul 2025 – Present**  
Founder & Technical Lead — VIT [\[Link\]](#)
- Founded an ed-tech initiative providing placement guidance, curated study material, and senior mentorship for students.
  - Led a 5-member team to produce 100+ technical learning videos, impacting 100+ students.
  - Designed beginner-to-intermediate learning roadmaps for DSA, Full-Stack development, and AI automation.
  - Expanded content across LinkedIn, YouTube, Instagram, and GitHub, building an early-stage learning community.
- Satsang Vachan Satsang Seva** **satsangvachansatsangseva.online – Sept 2025 – Present**  
Co-Founder & Project Lead – Digital Preservation & Social Impact Initiative [\[Link\]](#)
- Leading a digital preservation initiative to convert decades of archival literature into modern visual and multimedia formats.
  - Spearheading a digitization initiative to preserve 50+ years of archival literature for a global community of 200 Million+ followers.
  - 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** [\[Link\]](#)