

ABHIJAY KUMAR SHAH

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Education

Vellore Institute of Technology B.Tech in Computer Science & Engineering	Jul 2026 (Expected) CGPA: 8.44 / 10.0
DAV Public School, Dudhichua Senior Secondary (Class XII)	2019–2021 CGPA: 9.20 / 10.0
DAV Public School, Surya Vihar Secondary (Class X)	2018–2019 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.
- ParkEasy — Smart Parking Reservation System** — *React.js, Node.js, Express, MongoDB, JWT* [\[Link\]](#)
- Engineered a comprehensive parking reservation system using the **MERN stack**, enabling real-time slot booking & data persistence.
 - Designed robust **RESTful APIs** with Node.js & Express, utilizing **Mongoose** for strict schema validation of booking data.
 - Implemented secure **JWT authentication** & managed complex application state (user sessions) using **React Context API**.
 - Developed a responsive UI with **CSS Modules**, ensuring a consistent user experience across devices.
- 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.

Leadership / Achievements

- CatCatchCode** catcatchcode.online – **Jul 2025 – Present** [\[Link\]](#)
- Founder & Technical Lead — VIT
- 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** [\[Link\]](#)
- Co-Founder & Project Lead – Digital Preservation & Social Impact Initiative
- 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** [\[Link\]](#)