

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 — <i>MERN Stack, Tailwind CSS, RBAC, OpenRouter API and Gemini API</i> [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 — <i>React.js, Node.js, Express, MongoDB, JWT</i> [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 — <i>HTML, CSS, JavaScript, Chart.js</i> [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 — <i>JavaScript, Performance Optimization, Browser APIs</i> [Link]
– Engineered a multi-instance video playback system supporting 9 concurrent players with synchronized controls & 10x 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
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]