

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]
<ul style="list-style-type: none">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]
<ul style="list-style-type: none">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]
<ul style="list-style-type: none">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]
<ul style="list-style-type: none">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.	

Experience / Leadership – Achievements

CatCatchCode Founder & Technical Lead — VIT	catcatchcode.online – Jul 2025 – Present
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- 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 Co-Founder & Project Lead – Digital Preservation & Social Impact Initiative	satsangvachansatsangseva.online – Sept 2025 – Present
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- 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]
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