

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.
- 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.
- 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.
- 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 [\[Link\]](#)