

# 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.

### 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 — Founder & Technical Lead — 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 — Co-Founder & Project Lead — 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 [\[Link\]](#)