

# Amit Kumar

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LinkedIn

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LeetCode

🌐 Portfolio

## Profile

Full-Stack Developer with strong backend and system-design skills, experienced in **MERN**, **Django**, and real-time **WebRTC** systems. Built scalable platforms including an **E-commerce system with Stripe** and an **AI interview bot**, supported by solid CS fundamentals and **400+ DSA problem-solving**.

## Education

**Indian Institute of Information Technology, Sri City**  
*B.Tech in Electronics and Communication Engineering*

*Andhra Pradesh, India*

**CGPA: 7.79 / 10 (Expected 2026)**

## Technical Skills

- **Languages:** JavaScript (ES6+), C++, Python
- **Frontend:** React.js, Next.js (basic), Redux Toolkit, Tailwind CSS, HTML5, CSS3, Framer Motion
- **Backend:** Node.js, Express.js, Django, REST APIs, WebSocket, Socket.io
- **Databases:** MongoDB, PostgreSQL, MySQL (Indexing, Schema Optimization, Normalization)
- **DevOps/Tools:** Git, GitHub, Docker (basic), Postman, Vercel, Render, GitHub Actions (CI/CD)
- **Cloud APIs:** Stripe, OAuth 2.0, Grok API, OpenAI STT, Multer (File Storage Architecture)
- **Core CS:** DSA, OOP, DBMS, OS, CN, Low-Level Design, **System Design (basics: caching, load balancing concepts, rate-limits)**

## Experience

**Rajasthan Government School — Freelanced Project**  
*Full-Stack Development — Rajasthan, India*

*Aug—Sept 2025*



- Enhanced a modular monolithic **school management system architecture** using React.js, Node.js, and MongoDB.
- Engineered **optimized data models** for Admissions, Faculty, Gallery, and Toppers, improving query efficiency for 100+ records.
- Developed **role-based access** and secure file storage using Multer with structured storage paths and validation.
- Implemented **CI/CD pipelines**, improving deployment reliability and reducing manual ops overhead.
- Delivered a responsive UI improving accessibility and enabling easy onboarding for rural staff.

**Full Stack Development Intern**

*Feb—Apr 2025*

*Unified Mentor (Ed-Tech) — Remote*

- Built reusable, scalable UI components in React.js and designed clean API integration flows.
- Implemented **JWT authentication + RBAC** with secure token lifecycle management; optimized MongoDB schema and added server-side pagination to reduce API latency by ~20%.
- Improved responsiveness by reducing redundant network calls using caching and component-level memoization.

## Projects

**Books Unbound — E-commerce Platform** *Tech: Node.js, Express, React.js, MongoDB, JWT, OAuth, Stripe, Redux, Tailwind* — [Code](#)

- Created an **end-to-end e-commerce system architecture** including catalog service, cart service, and order workflow.
- Engineered **secure authentication** (JWT + Google OAuth) and authorization for Admin/User roles.
- Integrated **Stripe payment pipeline** with webhook validation and fault-tolerant order updates.
- Used **pagination + indexing** to scale product browsing and reduce load on MongoDB.
- Built a responsive and animated UI using Tailwind, Redux Toolkit, and Framer Motion.

**AI Interview Helper Bot** *Tech: React.js, Express, MongoDB, Grok API, OpenAI STT, WebRTC* — [Code](#)

- Experimented a **real-time interview system** using WebRTC for low-latency audio/video streaming.
- Built an **AI-driven question generation pipeline** via Grok API and structured response capturing.
- Implemented a **speech-to-text processing pipeline** using OpenAI STT with noise-handling.
- Designed efficient REST APIs and **optimized MongoDB queries** for session storage and quick reads.

**Event Management System**

*Tech: Django, SQLite, jQuery, HTML, CSS* — [Code](#)

- Developed a full-stack event portal using Django with MVC design patterns.
- Implemented **authentication, category-based operations, and admin tools**.
- Planned CRUD workflows improving event tracking and reducing manual management work.

## Certifications & Achievements

DRDO Software Engineering Intern • Solved 400+ DSA problems across LeetCode and other platforms