Ankit Vijay

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Education

Indian Institute of Information Technology   **August 2022 – July 2026**
Bachelor of Engineering in Computer Science   *Kota, Rajasthan*

Emmanuel Mission Sr. Sec. School   **March 2021 – July 2022**
Class XII CBSE (Science Stream)   *Beawar, Rajasthan*

Relevant Coursework

- Data Structures
- Algorithms Analysis
- Software Engineering
- Computer Networks
- Database Management
- Artificial Intelligence
- Operating Systems
- Cloud Computing

Projects

Hospital Management System | MERN Stack, JWT Authentication, REST API, MongoDB Atlas, Render, Vercel ○

- Engineered a full-stack healthcare management platform enabling secure patient, doctor, and appointment workflows using scalable MERN architecture.
- Implemented JWT-based authentication and role-based authorization, improving system security and protecting sensitive medical data.
- Developed RESTful APIs for managing appointments, patient records, and doctor profiles, ensuring efficient backend communication.
- Designed responsive frontend using React.js and Vite, improving user experience across desktop and mobile devices.
- Integrated MongoDB Atlas cloud database and deployed using Render and Vercel, ensuring high availability and reliable access.

CodeCast – Real-Time Code Collaboration Platform | MERN Stack, Socket.IO, CodeMirror, UUID, REST API ○

- Built a real-time collaborative coding platform enabling multi-user code editing with instant synchronization using Socket.IO.
- Engineered secure room-based collaboration system using UUIDs, allowing users to create and join isolated coding sessions.
- Integrated CodeMirror editor with syntax highlighting and customization, enhancing developer productivity and usability.
- Developed scalable backend using Node.js and Express.js to handle concurrent users and real-time communication efficiently.
- Designed responsive React.js frontend, ensuring seamless and interactive user experience across devices.

Learn-Flow LMS | MERN Stack, JWT Authentication, MongoDB Atlas, Render, REST API ○

- Developed a full-stack Learning Management System supporting student and instructor roles with secure JWT authentication.
- Implemented course management features including course creation, enrollment, and progress tracking workflows.
- Designed modern responsive UI with Glassmorphism effects and micro-interactions, improving engagement and usability.
- Enhanced backend security and scalability using Helmet, bcrypt, and API rate limiting for production-ready deployment.
- Deployed cloud-hosted application using MongoDB Atlas and Render, ensuring reliable performance and scalability.

Technical Skills

MERN Stack: MongoDB, Express.js, React.js, Node.js
Frontend: React.js, Next.js, HTML5, CSS3, Tailwind CSS, Responsive Design
Languages: JavaScript (ES6+), TypeScript, Python, C++, SQL ,C
Backend: Node.js, Express.js, RESTful APIs, JWT Authentication, OAuth2
Version Control: Git, GitHub, Postman, VS Code, Docker, Render, Vercel

Achievements and Certifications

- Successfully solved over 400+ DSA problems across multiple competitive programming platforms, including 200+ on LeetCode.