

MANAV PATEL

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Education

Vellore Institute Of Technology

Oct 2022 – Jun 2026

B.Tech in Computer Science and Engineering (CGPA: 8.63)

K. D. Ambani Reliance Foundation School

May 2020 – May 2022

Class 12 Percentage (CBSE): 74.8%

Class 10 Percentage (CBSE): 91.2%

Work Experience

Jio Platforms Limited

Oct 2024 – Dec 2024

Software Development Engineer Intern

Mumbai

- Built and optimized front-end modules using **React.js**, **TypeScript**, and **Redux**, enhancing application scalability and maintainability.
- Improved API performance by applying **lazy loading**, **memoization**, and **code-splitting**, resulting in improved load performance.
- Partnered with backend teams to design and integrate **REST APIs** using **Node.js** and **Express.js**, ensuring seamless data communication.
- Established a **component-driven architecture** and reusable UI framework, standardizing design consistency and reducing development overhead.

Technical Skills

Languages: Java, JavaScript, TypeScript

Databases: MongoDB, PostgreSQL, Redis (Caching)

Backend: Node.js, Express.js

DevOps: Docker, CI/CD Fundamentals

Frontend: React, Next.js, TailwindCSS, HTML, CSS

DevTools: Git, GitHub, Postman, VSCode

Projects

eVentIT — Event Management Platform with In-house Video Meetings

GitHub

- Engineered a full-stack event management platform with **real-time video meetings and chat** using WebRTC and Socket.io.
- Integrated **role-based access control (RBAC)** and **JWT authentication**, ensuring secure and tiered user permissions.
- Structured and optimized scalable **MongoDB schemas** for managing event metadata and user participation, enabling efficient data retrieval.
- Created a **responsive, modular interface** using React and TailwindCSS for a cohesive cross-device user experience.

ELearning (LMS) — Learning Management System for Online Courses

GitHub

- Architected a **Next.js + MERN-based** LMS with server-side rendering to enhance SEO and page responsiveness.
- Integrated **Redis caching** to accelerate API response time and reduce redundant database queries.
- Developed **course creation, media playback, and discussion modules** to support interactive and structured learning.
- Implemented **RESTful APIs** following the MVC architecture for maintainable and modular backend services.

Achievements

- Achieved a 1555 LeetCode rating (Top 30%) by solving time-bound coding challenges using efficient algorithmic strategies.
- Ranked in the top percentile (79%) among 23,872 participants in a Cloud Computing certification from NPTEL (IIT Kharagpur).
- Solved 300+ algorithmic problems on LeetCode and GeeksforGeeks, building strong proficiency in data structures and algorithms.

Position of Responsibility

BashCraft Club, VIT Bhopal University

Aug 2024 – Jan 2025

Tech Co-Lead

- Led planning and execution of technical events including ideathons with 300+ participants, improving engagement and visibility for the tech club.

Certifications

- Introduction to Front-End Development