

Chitransh Kumar

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Education

Indian Institute of Information Technology Vadodara International Campus Diu <i>Bachelor of Technology in Computer Science Engineering,</i>	Daman & Diu November 2022 – Present
Discovery International School <i>Senior Secondary Education (CBSE), Percentage: 92%</i>	Jaipur, Rajasthan August 2020 – March 2021

Technical Skills

Frontend Development: React.js (Hooks, Context API), Redux Toolkit, TypeScript, Tailwind CSS, Material-UI v5, HTML5, CSS3
Backend Development: Node.js, Express.js, RESTful APIs, Firebase Authentication, JWT/OAuth 2.0, WebSocket Integration
Database Management: MongoDB Atlas (NoSQL), MySQL, Database Indexing, Query Optimization, Data Modeling
DevOps & Deployment: AWS EC2 (3 instances), Docker Containerization, CI/CD Pipelines, Render Deployment
Development Tools: Git Version Control (50+ commits), Postman API Testing, Linux Shell Scripting, Performance Monitoring
Software Methodologies: Agile Development, Test-Driven Development, Microservices Architecture, Component-Based Design

Projects

CodeConnect GitHub Live Demo	January 2025 – Present
<ul style="list-style-type: none">Built and launched a full-featured MERN stack social platform currently serving more than 50 daily active users with secure JWT authentication.Developed a real-time messaging system using Socket.IO, ensuring stable 200ms latency under peak traffic conditions.Accelerated MongoDB API response time by 65% through database indexing, query restructuring.Designed a scalable microservices architecture on Vercel and Render platforms, optimized for seamless future migration to AWS EC2.Currently creating a robust CI/CD automation pipeline incorporating Jest for comprehensive unit testing and Cypress for thorough end-to-end validation procedures.Technologies: React, Node.js, Express, MongoDB, Socket.IO, JWT Authentication, Vercel, Render, Testing Frameworks	
StreamGPT (AI Movie Platform) GitHub Live Demo	April 2024 – August 2024
<ul style="list-style-type: none">Created and published a React-based streaming platform integrated with TMDB API that successfully delivers a catalog featuring more than 1000 movies.Enhanced overall user engagement metrics by 35% by integrating Gemini AI API to provide highly personalized content recommendations and viewing suggestions.Implemented Firebase authentication for user management, ensuring seamless access for 50+ concurrent users.Boosted application performance by 40% by applying responsive Tailwind CSS UI optimizations and efficient client-side rendering techniques.Fine-tuned Vercel deployment environment to efficiently process and manage 50+ concurrent API requests utilizing effective caching mechanisms.Technologies: React.js, Tailwind CSS, Gemini AI API, TMDB API, Firebase Authentication, Cloud Functions, Vercel	
MediaFlow GitHub Live Demo	January 2024 – March 2024
<ul style="list-style-type: none">Developed and launched a video platform capable of efficiently processing 50+ concurrent API requests by employing advanced caching strategies.Successfully drove user retention metrics up by 27% by designing and building an infinitely-nested comment system enabling seamless discussion experiences.Engineered real-time chat functionality, enabling 1s synchronization for 10+ simultaneously active participants.Enhanced overall UI responsiveness by 30% by utilizing Redux for centralized state management and efficient component rendering.Technologies: React, Redux, YouTube API, Tailwind CSS, WebSocket, State Management, Vercel Deployment	

Extracurricular Activities

Sports Coordinator , Basketball Club, IIIT Vadodara	January 2024 – Present
<ul style="list-style-type: none">Successfully coordinated and managed more than 3 inter-college basketball tournaments that engaged over 150 participants, resulting in boosted club membership by 10% through targeted recruitment initiatives.	
Core Member , Microsoft Learn Student Ambassadors	February 2024 – Present
<ul style="list-style-type: none">Executed comprehensive digital engagement initiatives that achieved measurable growth of 10% in student participation; successfully facilitated more than 5 Azure cloud computing workshops with exceptional 85% participant satisfaction ratings.	
Sports Coordinator , Volleyball Club, IIIT Vadodara	August 2023 – December 2024
<ul style="list-style-type: none">Coached and mentored 2 competitive volleyball teams that achieved impressive results of 3 podium finishes; reduced equipment procurement costs by 15% by developing beneficial vendor partnerships.	