Neetil Sahu

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TECHNICAL SKILLS

Languages : JavaScript, TypeScript, SQL
Database : PostgreSQL
Developer Tools : VS Code, Cursor, Google Analytics, Git, GitHub
Technologies / Frameworks :ReactJS, NodeJS, NextJS, ExpressJS, TailwindCSS, Motion(Framer), WebRTC

PROJECTS

Physics and Astronomy Club

- NextJS, TypeScript, PostgreSQL, Cloudfare R2, Framer Motion, Tailwind CSS, Prisma
- Built a production-ready club management platform with **30+ React components** and **23 RESTful API endpoints**, serving all club operations including **event registration, content management** and **member engagement.**
- Developed comprehensive admin dashboard with **10+ management modules** (events, registrations, gallery, team, statistics, newsletter), enabling content control without code deployments.
- Integrated third-party services : **Cloudflare R2** for CDN-backed image storage, **Instagram API** for social feed, and **email newsletter system** with Excel export functionality for **100+ subscriber management.**
- Implemented advanced performance optimizations: client-side caching reducing homepage load time by **85 percent (from 2.5s to 0.4s)** and lazy loading for images.
- Architected scalable backend infrastructure using **Prisma ORM** with **9 database models**, implementing **CRUD operations** with type safety and optimized queries reducing API response time by **" 40 percent."**
- Implemented security best practices: **bcrypt password hashing**, IP-based rate limiting, input validation, and **CSRF protection**, ensuring zero security incidents in production.

Campus Vibe

- NextJS, React, TypeScript, Shadcn/UI, NodeJS, Tailwind CSS, Socket.IO, WebRTC
- Built a production-ready anonymous **real-time chat platform** serving dual communication channels **(text + video)** with zero authentication required
- Developed comprehensive **WebRTC** video chat system with full **P2P architecture**, implementing ICE candidate exchange, **STUN/TURN** server integration.
- Integrated **Socket.IO** real-time communication layer with queue-based partner matching algorithm using Map data structures for O(1) lookup, enabling sub-second latency for instant user pairing and message delivery

Color Picker - Extension for Browsers

- JavaScript, HTML5, CSS3, Chrome Extension (Manifest V3), EyeDropper API
- Developed a browser extension (Manifest V3) that lets users pick colors from any webpage and copy **HEX, RGB,** and **HSL** values with one click, improving design and dev workflows.
- Integrated the **EyeDropper API** and **Chrome Storage API** to support in-page color sampling and persistent last color state across sessions.
- Implemented client-side color conversion (HEX - RGB - HSL) and **Clipboard API** for instant copy in multiple formats.

EDUCATION

Medicaps University   Aug 2023 – May 2027
Undergraduation Bachelor of Technology - Computer Science; Current (3rd year) CGPA: 8.3   Indore, M.P.

- **Coursework**: Data Structures, Computer Networks Algorithms, Databases, Computer Systems, Machine Learning