




Rohan Mishra


Full-Stack Web Developer (React, Node.js / Express.js)

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 Satna, India

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 Portfolio: Rohan Mishra

Profile

Full-Stack Developer specializing in **Next.js (React)** and **TypeScript** for building resilient web applications. Proficient in architecting scalable **Node.js/Express** backends and utilizing **Prisma** for reliable database interaction. Experienced in managing end-to-end **Vercel/Render deployment pipelines**, demonstrating a commitment to professional production quality. Eager to contribute to dynamic teams and grow through real-world challenges.

Education

Bachelor of Computer Applications (BCA)

Makhanlal Chaturvedi National University of Journalism and Communication, Bhopal — Satna, India

Expected Graduation: 2027

Skills

Languages & Frameworks:
JavaScript, TypeScript, React.js, Next.js, Node.js, Express.js, Prisma, PostgreSQL, MongoDB, HTML5, CSS3, Tailwind CSS

Tools & Platforms:
Git, Docker, REST APIs, VS Code, pnpm, Vercel, Render, CI/CD Principles

Projects

Note: Portfolio projects use free-tier hosting and may have brief initial load times

- Circular Audio Equalizer**
Tech Stack: Next.js, TypeScript, Web Audio API, Canvas
 - Built **real-time audio frequency visualizer** achieving consistent **60 FPS** through optimized **Canvas rendering** and **requestAnimationFrame** for smooth animation performance
 - Implemented **microphone capture** using **MediaStream API** and frequency analysis with **AnalyserNode**, processing **FFT size of 256** for **128 distinct frequency bands**
 - Engineered **circular visualization algorithm** mapping frequency data to **360° polar coordinates** with dynamic **HSL color gradients** responding to audio intensity
 - Designed **responsive architecture** with proper **audio context lifecycle management**, preventing **memory leaks** through systematic **resource cleanup**
- Personal Job Tracker**
Tech Stack: React, Tailwind CSS, Express.js, MongoDB, Docker, Hugging Face API (LLM Integration)
 - Built a **full-stack job management dashboard** to create, update, and organize job applications with CRUD operations.
 - Integrated **authentication and a drag-and-drop Kanban board** for intuitive job status management.
 - Implemented **robust backend APIs supporting advanced filtering, sorting, and pagination** via query parameters.
 - Enabled **deep linking** by syncing frontend state (filters, sort, and pagination) with URL parameters for reproducible views.
 - Optimized performance and maintainability** by offloading data operations to the backend.
 - Integrated an **AI-powered Job Fit Score** feature for intelligent, data-driven role matching.
- API Monitoring Dashboard**
Tech Stack: Next.js, Node.js/Express, PostgreSQL Prisma, TypeScript, Vercel, Render
 - Designed and deployed a **full-stack, real-time monitoring dashboard** for API endpoints, built with Next.js (Vercel) and Node.js/Prisma (Render).
 - Implemented **automated endpoint monitoring** with custom check intervals to provide continuous **uptime tracking** and immediate status updates.
 - Developed comprehensive **response time analytics** functionality, including historical charts for identifying performance trends and regressions.
 - Engineered a reactive, **auto-refreshing dashboard** UI to display current endpoint status and latency with minimal user interaction.
 - Utilized **Prisma** for reliable schema management and PostgreSQL interaction, ensuring data integrity across all monitoring checks.
 - Managed the professional deployment pipeline, including secure, dynamic **CORS policies** to whitelist Vercel origins.