Mayur Karmakar

Experienced Full Stack Developer | ReactJS & NextJS Focused

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Summary

Experienced Full-Stack Developer with a proven track record of building scalable web applications using ReactJS, NextJS, and TypeScript. Focuses on creating secure, high-performance platforms, modernizing legacy codebases, and integrating real-time features.

Skills

Frontend: ReactJS, NextJS, React Native, Redux, Zustand, TanStack Query, Tailwind CSS
Backend: tRPC, Drizzle ORM, REST API integrations
Integrations: Stripe, Zoom, OpenVidu, Jitsi, Socket.IO, Clerk, Vercel AI SDK
Tools: DBaaS (Supabase / Neon.tech / Turso), Git, Vercel

Experience

Full-Stack Developer @ Bsecure (Formerly Examd)
Sept 2023 - Jun 2025

Built two EdTech platforms using Next.js, React, Drizzle ORM, and Tailwind CSS:

- **AI-Powered Quiz Generator:** Integrated OpenAI GPT to transform text/files into question banks with dynamic API flows.
- Online Proctoring System:
  - Implemented live video/audio monitoring (WebRTC), AI-based face/object detection, and real-time violation alerts via OpenVidu & Socket.IO.
  - Developed RBAC-based user management, exam scheduling, auto-submission, and PayPal payment integration.

ReactJS & React Native Developer @ Wistli
Sept 2021 – Aug 2023

Developed AI-powered online proctoring solutions with LMS compatibility and contributed as a React/React Native developer to a healthcare web and mobile platform.

- Online Proctoring Platform (EdTech) :
  - Built an online exam proctoring platform with AI-powered face/object detection, live video/audio monitoring, screen recording, real-time violation alerts, and Canvas-integrated exam handling.
  - Implemented real-time communication features using WebRTC and Socket.IO for live student-proctor interactions, support chat, messaging, and violation reporting.
- Cross-Platform App Development (HealthCare) :
  - Collaborated on frontend development with React and React Native, delivering feature-rich web and mobile experiences across healthcare solutions.
  - Developed analytical dashboards and enhanced data visualization by refactoring diagnosis prepossessing logic, improving clinical insights and decision-making.

Projects

Chatbot (AI-Powered Conversational App)
Built a web application for conversational interactions powered by OpenAI's GPT models.
- User-friendly chat interface for interacting with the AI models.
- Configurable parameters for OpenAI models, including secret key, model name, and temperature settings

Cowinistory (COVID-19 Vaccine Slot Predictor)
Built a web application that assisted individuals in securing COVID-19 vaccination appointments in India by analyzing historical slot availability and predicting trends.
- Analyzes historical slot data to predict availability trends.
- Integrated Telegram specific APIs for real-time updates.

Collegepapers (Study Resource Hub for Utkal University)
Centralized platform for notes, papers, and syllabus.

Education

Trident Academy of Creative Technology (TACT)
Bhubaneshwar, Odisha, India

Bachelor of Computer Applications (BCA)
Aug 2018 –Sep 2021