

# Mayur Karmakar

## Full Stack Developer | ReactJS & NextJS Focused

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### Summary

Aspiring Full-Stack Developer with 4 years of expertise in 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:** Node.js, Express.js, tRPC, Drizzle ORM, Prisma ORM, REST API integrations

**Integrations:** Stripe, Zoom, OpenVidu, Jitsi, Socket.IO, Clerk, Vercel AI SDK

**Tools:** DBaaS (Supabase / Neon.tech / Turso), Git, Vercel

### Experience

#### UI Developer @ Bsecure (Formerly Examd)

Sept 2023 - Jul 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 @ Wisteli

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 preprocessing 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)

Bachelor of Computer Applications (BCA)

Bhubaneswar, Odisha, India

Aug 2018 –Sep 2021