MAYUR KARMAKAR

ReactJS | NextJS Developer

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Summary

Experienced Full-Stack Developer with a track record of building scalable web applications with proven expertise in modern frontend and backend technologies including ReactJS, NextJS and TypeScript, with a focus on creating secure, high-performance platforms. Adept at end-to-end development, modernizing legacy codebases, and integrating real-time features such as communication tools, AI-powered tools, and third-party systems.

Skills

- ReactJS • NextJS • React Native • TRPC • Redux • Zustand • React-Query • Tailwind
- Stripe Payments • Zoom Integration • Openvidu • Vercel AI Sdk • DBaaS • Drizzle Kit
- Jitsi Sdk • Clerk

Experience

Beyond Exam
Full Stack Developer (Content2Quiz)   Aug 2023 – Nov 2024

Developed a full-stack web app that transforms text and files into quizzes using OpenAI's GPT services.

- Built a full-stack web application using Next.js, React, and Drizzle ORM to generate quizzes from user inputs and uploaded documents (PDF, DOCX).
- Developed user-friendly and responsive UI components using Mantine and Tailwind CSS to capture and manage diverse user inputs.
- Designed API flows to send content to a GPT-based question generation service and render structured quiz outputs in the UI.
- Implemented secure backend endpoints for managing user content, request payloads, and database transactions using Drizzle ORM.
- Integrated Clerk for authentication and protected route handling, supporting personalized quiz experiences.
- Focused on seamless user experience by optimizing content parsing, API integration, and result rendering across devices.

Beyond Exam
Frontend Developer (Bsecure Pro)   Sept 2023 - Jun 2025

Developed a comprehensive, self-contained educational technology platform for online proctoring and exam management, offering a personalized, flexible, scalable, inclusive, and non-intrusive solution that initiates the proctoring process.

- Implemented a comprehensive set of proctoring features including live video and screen recording, AI-powered face and object detection, audio monitoring, and real-time violation alerts to ensure exam integrity.

- Developed a scalable exam management platform with configurable quiz settings, Canvas-integrated assignment handling, dynamic scheduling, real-time countdown timers, automatic submission logic, and post-exam review functionality for instructors and students.

- Developed a modular user management system with role-based access control (RBAC), enabling customized experiences for students, instructors, proctors, and admins—complete with dashboard views, progress insights, and profile configuration.

- Integrated interactive exam features including live support chat, real-time messaging between students and proctors, video conferencing via OpenVidu, a help system for technical/general support, and instant violation reporting with alerts.

- Implemented real-time communication with Socket.IO, video/audio streaming using WebRTC, AI services for automated monitoring, and Paypal integration for payment processing.

Wistli
Lead Frontend Developer (examd - canvas)   Sep 2021 – Aug 2023

Developed a comprehensive Educational Technology Platform focused on Online Proctoring and Exam Management. Implement features that provide secure online examination solutions with AI-powered proctoring capabilities and seamlessly integrate with any application such as an LMS or test engine to execute secure online examinations with AI-powered proctoring capabilities.

- Implemented a comprehensive set of proctoring features including live video and screen recording, AI-powered face and object detection, audio monitoring, and real-time violation alerts to ensure exam integrity.

- Developed a scalable exam management platform with configurable quiz settings, Canvas-integrated assignment handling, dynamic scheduling, real-time countdown timers, automatic submission logic, and post-exam review functionality for instructors and students.

- Integrated interactive exam features including live support chat, real-time messaging between students and proctors, video conferencing via OpenVidu, a help system for technical/general support, and instant violation reporting with alerts.

- Implemented real-time communication with Socket.IO, video/audio streaming using WebRTC, AI services for automated monitoring.

Wistli
ReactJS & React Native Developer (CarelogiQ)   Oct 2022 – Aug 2023

Played a key role in the frontend team, contributing to web development with React and React Native for cross-platform mobile apps. Implemented features, optimized performance, and coordinated with other team members to ensure successful delivery.

- Led debugging efforts to resolve critical issues with incorrect diagnosis dates, ensuring accuracy of patient information.
- Enhanced data visualization by refactoring code related to preprocessing of patient diagnosis data.
- Developed a new analytical dashboard providing insights into patient vital signs, improving clinical decision-making.
- Increased cross-platform stability by addressing app crashes on both Android and iOS devices.
- Optimized user experience on Ant Design forms by implementing seamless scrolling for error states.

Projects

Chatbot

ChatBot is an application designed for conversational interactions powered by OpenAI's GPT models. This application provides users with a chat interface to engage in conversations with AI models provided by OpenAI using a simple web interface.

Key Functionalities

- Configurable parameters for OpenAI models, including secret key, model name, and temperature settings.
- User-friendly chat interface for interacting with the AI models.

Technologies used

ReactJS, Redux, Zustand, Zod, Tailwind

Cowinhistory

Built a web application that assists individuals in securing COVID-19 vaccination appointments in India by analyzing historical slot availability and predicting future trends.

Key Functionalities

- Displays interactive timelines and charts of past vaccine slot availability, filterable by location and vaccine type.
- Provides a calendar view of past slot openings and forecasts upcoming availability with estimated dates and projected vaccine quantities.
- Provides a daily digest of past slot openings, highlighting underbooked locations to help users find available appointments.
- Suggests optimal booking times based on historical patterns and allows users to schedule automatic appointment searches for increased convenience.

Technologies used

ReactJS, Redux, React Router, Python, Django Rest Framework, MySQL, TensorFlow, Keras, Pandas, Matplotlib, Numpy, Scikit-Learn

Collegepapers

A centralized web platform streamlining study resources for Utkal University students.

Key Functionalities

- Provides a searchable database of course notes, study guides, and past exam papers, organized by semester and subject.
- Offers quick access to official college announcements, course syllabi, and academic calendars.
- Improves exam preparation with curated previous year's question papers.

Technologies used

ReactJS, Redux, React Router, Python, Django Rest Framework, MySQL

Education

Trident Academy of Creative Technology (TACT)   Aug 2018 – Sep 2021
Bhubaneshwar

Bachelor of Computer Applications (BCA)

Certifications

React - The Complete Guide 2023 (incl. React Router & Redux) - *Udemy*
Issued Mar - 2021
Credential ID - UC-840177ec-c9f4-41f9-a39a-27d34e4af316
Certificate

Python and Django Full Stack Web Developer Bootcamp - *Udemy*
Issued Mar - 2018
Credential ID - UC-ZPNYJ3TO
Certificate