NISHANT RACHERLA

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SKILLS

React, Next.js, Redux, TypeScript, JavaScript, Tailwind CSS, Node.js, Express, Ruby on Rails, Ruby, REST APIs, Websockets, SQL, PostgreSQL, MongoDB, Python, HTML, CSS, MUI, Babel, Webpack

WORK EXPERIENCE

Software Development Internship
Intense Technologies Ltd., Oct 2021 - Dec 2021
- Developed a **React** application to streamline budget tracking; assisted project managers in monitoring the progress of projects.
- Built dashboards and reports incorporating budget tracking metrics and formulae using project management principles, including Budget at Completion (BAC) and Cost Performance Index (CPI).
- Visualized the data using **Chart.js** allowing project managers to have a better understanding of a project's current status.

Software Development Internship
Intense Technologies Ltd., May 2020 - Jun 2020
- Developed a COVID-19 statistics dashboard using **React** and the John Hopkins Coronavirus Resource Center public API.
- Implemented interactive data visualizations using **Google Charts** to display national and international COVID-19 trends.
- Led a team of two software engineers to continuously improve the dashboard's performance, ensuring consistent data updates.

EDUCATION

Sreenidhi Institute of Science and Technology - *Bachelor of Science, Computer Science* (Aug 2022)
App Academy - 1000-hour immersive full-stack web development course with <3% acceptance rate (Feb 2023)

PROJECTS

Rizzume   Live Site | GitHub
A resume grading tool to help job seekers optimize their resumes, built using Next.js, TypeScript, and Tailwind CSS.
- Implemented a user-friendly interface with **Next.js** and **Tailwind CSS**, allowing users to input job descriptions and upload PDF resumes for analysis, using keyword matching to generate a score based on compatibility.
- Integrated **OpenAI's Chat Completions API**, providing users with personalized suggestions by analyzing the user's resume and the job description.
- Deployed the application seamlessly by leveraging **Vercel's** platform, enabling automatic scaling and providing robust security mechanisms.
- Collaborated closely with two software engineers in a fast-paced hackathon environment, improving teamwork and time management, winning the **Descope Challenge** at the **DeveloperWeek CloudX 2023 Hack**.

Resonance   Live Site | GitHub
A full-stack web application inspired by Discord, built using React, Redux, HTML, CSS, Ruby on Rails, PostgreSQL, and Action Cable.
- Implemented real-time chat functionality using **Action Cable** (**Ruby on Rails** implementation of Websockets) and **Redis** for user communication.
- Built user interactions with **Websockets** enabling instant updates to the UI without page refreshes or additional requests to the backend allowing for a seamless user interface.
- Constructed a defensive mechanism against predictable serial number attacks using **AES** to encrypt and decrypt invite links.
- Integrated **Redux** state management to streamline communication between the frontend state and the backend data.

ViewFinder   Live Site | GitHub
A single-page web application developed to help photographers find and share lesser-known photo locations, built using Mongo, Express, React, Redux, Node.js, HTML, CSS, and AWS.
- Designed the frontend architecture and established code patterns along with a team of four, speeding up the development process.
- Developed multiple reusable **React** components, reducing code redundancy and improving the maintainability of the app.
- Incorporated custom markers through the **Google Maps API** along with clustering of markers based on the current zoom level, improving user experience and legibility.
- Managed debugging of various issues in the **React-Redux** and request-response cycle implementations, allowing for a streamlined and efficient development experience for the team.