Nishant Racherla

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SKILLS

Next.js, React, Redux, TypeScript, JavaScript, Tailwind CSS, HTML, CSS, Prisma, Drizzle, Node.js, Express, Ruby on Rails, Ruby, Serverless Databases, PostgreSQL, MongoDB, REST APIs, Websockets, Shadcn UI, Radix UI, MUI, Python, Babel, Webpack

WORK EXPERIENCE

Full Stack Engineer - *ProfessorAI (Remote, US)*   Jan 2024 - Present
- Designed and implemented high-performance, reusable PDF viewer component for displaying textbooks containing over 1000 pages in chats, decreasing resource consumption by 80%.
- Collaborated closely with CTO to develop and deploy 5 different chat plugins, enhancing platform functionality.
- Implemented authentication, integrating Clever as a login method to facilitate easy access for K12 school users.

Software Development Internship - *Intense Technologies Limited (Hyderabad, India)*   Oct 2021 - Dec 2021
- Developed **React** application to streamline budget tracking; assisted project managers in monitoring project progress.
- 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 data using **Chart.js** allowing project managers to better understand current project status.

EDUCATION

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

OPEN SOURCE

- **Dhravya/dump.place**: Created loading pages with skeletons, reducing initial page load time by 98%.
- **himself65/npm-download-stat**: Implemented loading spinner and disabled search button during data fetching using useFormStatus, enhancing UX.
- **TheAlgorithms/TypeScript**: Contributed math functions and corresponding unit tests to be used as utilities repository-wide.

PROJECTS

DishCraft   Live Site | GitHub
One-stop store for all your recipes, built using Next.js, TypeScript, Drizzle ORM, Serverless Postgres, Vercel KV, Vercel Blob.
- Utilized **Partial Pre-Rendering (PPR)**, **Server Actions**, and **Dynamic Rendering** in **Next.js**, achieving 99+ Google PageSpeed Insights scores in every category.
- Implemented **trigram matching** using **pg_trgm indexes** for multiple fields, reducing search query speeds by 96.5%.
- Incorporated rate limiting using **Vercel's KV database**, preventing excessive database querying and malicious traffic.

Rizzume   Live Site | GitHub
Resume grading tool to help job seekers optimize their resumes, built using Next.js, TypeScript, Tailwind CSS.
- Implemented user-friendly interfaces with **Next.js** and **Tailwind CSS**, allowing users to input job descriptions and upload PDF resumes for analysis, using keyword matching to generate scores based on compatibility.
- Integrated **OpenAI's Chat Completions API**, providing users with personalized suggestions by analyzing user resumes and job descriptions.
- Ranked 1st in **Descope Challenge** at **DeveloperWeek CloudX 2023 Hack** with team of two other software engineers.

Resonance   Live Site | GitHub
Full-stack web application inspired by Discord, built using React, Redux, HTML, CSS, Ruby on Rails, PostgreSQL, Action Cable.
- Implemented real-time chat functionality using **Action Cable** and **Redis** for user communication.
- Built user interactions with **Websockets** enabling instant updates to UI without page refreshes or additional network roundtrips allowing seamless user experiences.
- Constructed defensive mechanism against enumeration attacks using **AES** to encrypt and decrypt invite links.
- Integrated **Redux** state management to streamline communication between frontend state and backend data.