Saraswathi Ramanuja

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Professional Summary

A Computer Science student with a CGPA of 8 and hands-on experience in full-stack development. Proficient in building web applications using modern technologies like React, Node.js, and MongoDB. Actively learning Data Structures and Algorithms (DSA) and expanding skills in DevOps to enhance deployment and infrastructure management. Eager to contribute to innovative projects and collaborate within dynamic teams.

Education

B.V. Raju Institute of Technology, Narsapur, Telangana 2023 – 2027

Bachelor of Technology in Information Technology

- CGPA: 8.0/10.0

Alphores Junior College 2021 – 2023

Intermediate (10+2)

- Percentage: 90%

Sri Chaitanya High School, 2020 – 2021

Secondary School (10th Grade)

- GPA: 10.0/10.0

Technical Skills

Languages: HTML, CSS, JavaScript, TypeScript, C, C++, Java, Python

Frameworks/Libraries: React, Node.js, Express, Next.js, Tailwind CSS

Databases/Tools: PostgreSQL, Prisma,MongoDB

Projects

Budget Tracker View on GitHub

- Developed a user-friendly budget tracking application to manage income, expenses, and monthly budgets.
- Implemented features like income/expense tracking, budget management, and data persistence using LocalStorage.
- Designed a responsive interface accessible on both desktop and mobile devices.
- **Tools Used:** HTML, CSS, JavaScript

ToDo App - React View on GitHub

- A task management application to help users organize daily tasks efficiently.

- Implemented features like adding tasks, toggling completion status,deleting tasks(active, completed).
- Designed a responsive interface for seamless use on both desktop and mobile devices.
- Developed using React

Course Selling Backend View on GitHub

- Developed a Course Management System using Node.js, Express, and MongoDB with separate routes for administrators and users.
- Implemented user authentication (signup/signin) and admin authentication (signup/signin) for secure access.
- Enabled course creation and listing functionality for administrators, streamlining course management.
- Allowed users to view and access purchased courses, enhancing user experience.

Auth-Nodemailer View on GitHub

- Developed a secure authentication system using Node.js, Express, Nodemailer, and React.
- Implemented user authentication features, including signup, login, email verification, and password reset.
- Enabled email verification during signup and password recovery via email for enhanced security.
- Built RESTful APIs for seamless integration with React-based frontend applications.

Fitness Plan Generator View on GitHub

- Developed an AI-powered web application to generate personalized fitness and nutrition plans using RAG (Retrieval-Augmented Generation) and vector databases.
- Integrated Gemini API for AI-driven fitness and nutrition recommendations, tailored to user inputs such as goals, fitness level, and preferences.
- Utilized a vector database for efficient storage and retrieval of fitness-related embeddings, enabling faster and more accurate results.
- Designed a user-friendly interface with forms for inputting fitness goals and preferences, ensuring a seamless user experience.
- Built a responsive design for optimal usability across desktop, tablet, and mobile devices.

Second Brain View on GitHub

- Developed a personal knowledge management system with a TypeScript-based stack, including React (frontend) and Node.js + Express (backend).
- Enabled users to sign up, log in, and securely store embedded content like tweets, YouTube videos, and links in one centralized location.
- Implemented features like content embedding, organization, and sharing, allowing users to share their "Second Brain" with others.
- Designed an intuitive and responsive user interface for seamless interaction across devices.

Chat Application View on GitHub

- Developed a real-time chat application using TypeScript for robust and scalable code.
- Implemented real-time communication using WebSockets (ws library) to enable instant message delivery and updates.
- Enabled room-based chat functionality, allowing users to join specific rooms and exchange messages in real time.
- Designed a WebSocket server to handle user connections, room management, and message broadcasting efficiently.
- Ensured scalability by maintaining a list of active sockets and their associated rooms for targeted message delivery.

Hospital Management System View on GitHub

- Developed a full-stack hospital management system to streamline appointment scheduling, doctor management, and patient interactions.
- Built the backend using Node.js and Express, with separate routes for admin and user functionalities.
- Implemented admin features such as managing doctors, creating/updating appointments, and deleting appointment slots.
- Enabled user features like signing up, logging in, booking appointments, and viewing profiles.
- Designed a RESTful API to handle CRUD operations for appointments, doctors, and user profiles.
- Ensured role-based access control using middleware for secure and restricted access to admin and user routes.