SAI KIRAN PATRO

I am a **Software Engineer** with **3** years of experience in building high quality, running full stack, large scale, and highly available applications using **JavaScript, Node.js, React Js, Python, MongoDB.**

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Work Experience

Tata Consultancy Services, Hyderabad   June-22- current
React Js Developer

- **Designed** highly scalable and robust **Subscription Center** platform from scratch serving **1.8 M** active users using **MERN Stack**.
- **Designed** and implemented modern, responsive UI components with **React.js,** HTML5, CSS3, and JavaScript, ensuring cross-browser compatibility and performance.
- **Solved** critical major bugs in the backend which improved the overall maintenance and performance by 10%.
- **Built** a secure **OTP-based email authentication** system, used by over 1 million users, enhancing login safety and user trust.
- **Improved** the App performance with **Memoization** for caching and **Lazy Loading** to improve initial load times.
- **Developed** real-time chat features using **Socket.IO** and integrated GenAI (Gemini) for interactive and intelligent user experience enhancements.
- Developed a **Referral Offer Code program** from scratch, resulting in an **80% increase** in sales.
- **Implemented** responsive design, driving a 15% boost in mobile traffic based on analytics and improved user engagement.

Skills

Frontend Technologies - HTML, CSS, Javascript, React Js, Redux, Tailwind CSS, EJS

Programming Languages - Javascript, C++, Python

Databases - MySQL, MongoDB

Tools - Git , GitHub, Vs Code

Core Subjects - Data Structure and Algorithm , DBMS

Familiar - React Native, Flask, Firebase, Node JS, Express JS

Certificaitons- Frontend Expert (View) , Data structures Algorithms (View)

Personal Projects

Netflix GPT -Github | Youtube

- An AI-powered entertainment application. Enhanced performance with **Memoization** for caching, **Pagination** for efficient data loading, and **Lazy Loading** to improve initial load times.
- Built with **React Js** , **Redux RTK** , **Gemini AI** , **Tailwind CSS** , and **Firestore** for scalable architecture and modern UI.

Pulse AI Music Player- Github | Youtube

- A **music player** with AI integration leverages **Gen AI** technology to generate text to audio waveform using an API, deep learning models.
- Built with **HTML** , **CSS**, **Javascript, Firebase**

TowerLink AI - Fullstack Chat application - Github | Youtube | Web

- **TowerLink AI** is a **Full Stack** Real-Time **Chat** Application designed for intelligent and secure communication, powered by Generative AI.
- **Connect** with others, **chat in real time**, and engage with an **AI chatbot** that understands both text and image inputs.
- **Built** using: **React JS, Node JS, Redux Toolkit, Express, MongoDB, Socket.IO, Tailwind CSS, Gemini API**

Achievements

- Solved **400+ Data Structures and Algorithmic Problems** on coding platforms like **CodeStudio** and **GFG**
- **Won 1st place** at the Hardware Expo competition, outperforming 80+ projects with an innovative **Fall Detection system**.
- **GitHub opensource** contribution - **Arctic Code** Vault Contributor
- **Shared knowledge** on YouTube, achieving over **1 lakh+** views and building a community of **700**+ subscribers.

Education

Anil Neerukonda Institute of Technology and Sciences , Andhra Pradesh, IN   *2018-2022*

B.Tech - Electronics and Communication Engineering(ECE)   Cgpa - 8.7