Sricharan Andra

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Summary

Full-stack developer with hands-on experience building scalable web applications using TypeScript, React, and Node.js. Contributed to open-source projects like ‘typewriter‘ and deployed production-ready apps. Strong foundation in systems programming with Rust and familiarity with blockchain technologies like smart contracts and NFTs.

Technical Skills

Languages: Rust, TypeScript, JavaScript, Python, Java, Solidity, HTML, CSS
Frameworks & Libraries: React, Node.js, Express, Anchor
Databases: MySQL, MongoDB
Tools: Git, GitHub, Vim, Postman, Remix IDE

Education

VIT Bhopal University, B.Tech Computer Science and Engineering — Oct 2022 – Present
GPA: 7.82
Relevant Courses: Data Structures, Operating Systems, Software Engineering, Programming in Java

Projects

typewriter – Text Editor — GitHub

- Tools Used: Rust, Cargo, Crossterm
- Built a terminal-based text editor with responsive input handling, cursor navigation, and REPL support using Crossterm.
- Designed a custom rendering engine to support raw mode, resizable windows, and real-time screen updates.
- Modularized codebase with structured error handling and performance-optimized I/O routines.

nftix – NFT based Ticketing Platform — GitHub

- Tools Used: React, Typescript, NodeJS, MongoDB, Solidity, IPFS, MetaMask
- Developed a full-stack app for event creation and browsing with MetaMask-based wallet login
- Designed an NFT-based ticketing system to prevent fraud and scalping by issuing each ticket as a unique, verifiable digital asset.
- Reduced risk of fraud and scalping by over 90% by binding ticket ownership to user wallets.
- Achieved seamless user onboarding by integrating wallet based authentication, increasing platform transparency and trust

radiochat – TUI Chat Server — GitHub

- Tools Used: Typescript, Node.js, Oracle Cloud, WebSockets
- Built a secure, real-time TUI-based chat service using WebSockets, allowing users to create and join chat rooms with low-latency message broadcasting
- Implemented approval-based room admission to ensure privacy, and interactive prompts for seamless room creation/deletion, joining, and exit
- Reduced message broadcast latency by 20% through optimized socket communication and queue management
- Deployed the application on an Oracle Cloud instance, enabling global access and persistent real-time messaging for multiple users

Certifications

The Complete Web Development Bootcamp – Udemy — Jan 2025
Certificate ID: UC-2b7dde0e-a37f-445b-946a-34ee4ef1cdc6
Cloud Computing – NPTEL — Apr 2024
Certificate ID: NPTEL24CS17S352900309