

# Sricharan Andra

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## Technical Skills

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**Languages:** Rust, TypeScript, JavaScript, Python, Java, Solidity, HTML, CSS

**Frameworks & Libraries:** React, Node.js, Express, Anchor, Prisma ORM

**Databases:** MySQL, MongoDB, PostgreSQL

**Tools:** Git, GitHub, Vim, Postman, Remix IDE

## Education

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**VIT Bhopal University**, B.Tech Computer Science and Engineering

Oct 2022 – Present

GPA: 7.89

## Projects

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**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.
- Engineered a custom rendering engine in Rust 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, Rust, Node.js, Oracle Cloud, Prisma ORM, PostgreSQL, WebSockets
- Built a secure E2E Encrypted, real-time TUI-based chat service in Rust 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

## Extracurriculars

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**Writer, Editorial Team, AI Club**

Feb 2023 – Apr 2025

- Authored multiple technical articles on emerging AI trends for Editions 3 and 4 of 'The Tech Digest' magazine.
- Collaborated with cross-functional teams, including designers and editors, to conceptualize and execute the magazine's layout and content strategy.
- Coordinated the submission pipeline by collecting, reviewing, and fact-checking articles from student volunteers, maintaining high standards for accuracy and quality.

## Certifications

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**The Complete Web Development Bootcamp** – Udemy

Jan 2025

Certificate ID: UC-2b7dde0e-a37f-445b-946a-34ee4ef1cdc6

**Cloud Computing** – NPTEL

Apr 2024

Certificate ID: NPTEL24CS17S352900309