

# Sivaji Gadidala

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**Summary** — Experienced Full-Stack & Blockchain Developer with deep expertise in building high-performance web applications using Rust, Next.js, and Node.js. Specialized in developing secure and efficient decentralized applications (dApps) with a strong focus on the Solana blockchain, Ethereum, and the Rust ecosystem. Proficient in smart contract development, Web3 integrations, and modern DevOps practices, including CI/CD pipelines, Dockerization, and automated deployments. Passionate about bridging the Web2 and Web3 worlds to deliver scalable, secure, and user-centric solutions.

## Skills

**Languages** Rust, TypeScript, Solidity, Python

**Blockchain** Solana, Hardhat, Anchor Framework, Web3.js, SPL Token, Token-2022, PDAs, Smart Contracts, Wallet Adapter, Metaplex, DeFi Protocols, Switchboard Oracles, Solana Agave, Security Audits

**Frontend** Next.js, Tailwind CSS, Vue.js, Redux Toolkit

**Backend** Rust (Axum, Rocket), Node.js, REST APIs, Web3 Integrations, Anchor Client (IDL), RPC Servers, Secure API Design

**Databases** PostgreSQL, MySQL, MongoDB, Firebase, IPFS

**Dev Tools** Git, Docker, Kubernetes, Postman, CI/CD Pipelines, Code Auditing Tools, Unit testing

**Platforms** Vercel, Netlify, AWS, Figma, JIRA, Metaflex

## Experience

**Simreka Softwares Pvt. Ltd.**

**Aug 2024 – Present**

*Full Stack Developer*

*Full Time*

Client: Apollo

- Engineered **high-performance backend systems** for AI-powered simulation software using **Rust (Axum)**, ensuring scalability, security, and low-latency performance across distributed services.
- Designed and implemented **RESTful microservices** with Rust and async programming (Tokio), leveraging type safety and concurrency for maximum backend efficiency.
- Built and optimized **secure APIs** for the platform's admin, master, and console modules, significantly improving reliability and user experience.
- Implemented **security best practices**, including authentication, access control, input validation, and vulnerability protection, validated with SonarQube and Rust static analysis tools.
- Developed comprehensive **unit and integration tests** to ensure maintainability, correctness, and production-grade robustness.
- Collaborated with process engineers and the data science team to enable interactive data visualizations and real-time analytics using **Plotly** and **Tailwind**.
- Contributed to setting up **Dockerized CI/CD pipelines** for automated builds, testing, and deployments, ensuring smoother release cycles and consistent delivery.

**Technologies Used** : Rust(Axum, Tokio, Serde, SQLx), TypeScript, Next.js, MySQL, Docker, Github Actions, JIRA, GitHub, Postman

Project2: SABIC (Saudi Basic Industries Corporation)

- Built a **web-based chemical simulation system** using Node.js and Vue.js, improving research efficiency and scalability.
- Developed backend services with **TypeScript** for strong type safety and maintainable architecture.
- Implemented a secure **maintenance mode** feature with secret-key access and timezone-aware control.
- Integrated **ApexCharts** and custom video components for data visualization and interactive dashboards.
- Mentored junior developers and optimized front-end performance for faster rendering and reduced load times.

**Technologies Used** : Node.js, Express.js, Vue.js, Vuexy, ApexCharts, MongoDB, JWT, Docker, Git

**Octaverse LLP**

**Nov 2023 – Mar 2024**

*Frontend Developer*

*Internship*

- Fixed UI bugs, optimized performance, and improved web page responsiveness to enhance user experience.
- Developed and maintained web applications using **React.js** and **Redux**, ensuring efficient state management.
- Collaborated with designers and developers to implement new front-end features and maintain coding best practices.
- Assisted in debugging, testing, and code reviews to ensure high code quality.

**Technologies Used** : HTML, CSS, JavaScript, React.js, Redux, Tailwind CSS, Git, GitHub, Netlify

## Education

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**Sree Vahini Institute Of Science And Technology**  
*Bachelor of Technology in Electronics And Communication*  
*Minors: Computer Networks ; IOT*

**Aug 2019- May 2023**  
**7.3 CGPA**

### Certifications/ Courses

- Front-end-development-libraries Certification From FreeCodeCamp
- Python Developer BootCamp From Udemy
- Solana Development From Blueshift

### Open Source Contributions – Solana Ecosystem

- Actively contributing to open-source blockchain repositories focused on Solana development and tooling.
- Submitted multiple **pull requests** improving documentation, refactoring code, and fixing bugs—several of which have been successfully **merged into main branches**.
- Collaborated with maintainers and other developers to ensure high-quality, production-ready contributions aligned with project standards.

## Projects

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### Real-Time Chat Application – Rust + Next.js

[View Code](#)

- Developed a **real-time chat application** with a **Rust backend (Axum)** and **Next.js frontend**, delivering secure and low-latency messaging.
- Implemented **WebSocket communication** for instant message updates and seamless interaction.
- Built a **responsive frontend** with reusable components and optimized rendering for high-performance user experience.
- Followed **security best practices**, including input validation, and protection against common vulnerabilities.
- Wrote **unit and integration tests** to ensure backend reliability and maintainability.
- **Tech Stack:** Rust (Axum), Next.js, TypeScript, WebSockets, Tailwind CSS.

### Restaurant Review System on Solana – Built with Anchor & Next.js

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[View on Explorer](#)

- Developed a decentralized restaurant review **dApp** on the **Solana blockchain** using the **Anchor framework**, ensuring transparent, tamper-proof on-chain data.
- Implemented program logic in **Rust** to create, update, and validate reviews with ownership verification via **Program Derived Addresses (PDAs)**.
- Built a dynamic **Next.js** frontend integrated with **Solana Web3.js** and **Wallet Adapter** for secure wallet-based user interactions and real-time on-chain updates.
- Wrote comprehensive **Anchor tests** in TypeScript to validate state transitions and ensure program reliability across Devnet clusters.
- **Tech Stack:** Rust, Anchor Framework, Solana Web3.js, Next.js, TypeScript, Tailwind CSS, Wallet Adapter.

### Metaplex NFT Minting Program – NFT Platform

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- Developed an on-chain **NFT minting program** on the **Solana blockchain** using the **Metaplex protocol** and **UMI SDK**, enabling secure NFT creation and collection management.
- Implemented NFT workflows for collection creation, individual NFT minting, off-chain metadata uploads, and token URI management.
- Integrated decentralized storage for images and JSON metadata using **Irystor**, ensuring permanence, accessibility, and data integrity.
- Managed collection ownership, update authorities, and verified creators using **Program Derived Addresses (PDAs)** and wallet-based authorization.
- Automated minting, airdrop, and verification processes with **TypeScript scripts** utilizing **Solana Web3.js** and the **SPL Token Program**.
- **Tech Stack:** TypeScript, Solana Web3.js, Metaplex SDK (UMI, MPL Token Metadata), PDAs, Decentralized Storage, Node.js.