

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

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

Real-Time Chat Application – Rust + Next.js

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- 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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- 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**.