Harish Rana

8872512811

🧨 Mohali, India

in harishrana5492

Harish5492

SUMMARY

Skilled MERN Stack & Blockchain Developer with expertise in Node.js, Express.js, React.js, MongoDB, SQL, REST APIs, JWT, Redis caching, and responsive UI with Redux, focused on clean code and performance.

WORK EXPERIENCE

Antier Solutions Pvt. Limited

MERN Stack & Blockchain Developer

Jan 2024 - Present

- Designed scalable cross-chain transaction systems using Node.js, BullMQ, and TokenBucket algorithm, boosting performance and efficiency.
- Built real-time dashboards using React.js and Redis caching, integrating CMC API for blockchain performance insights and data-driven decision-making.
- Ensured JWT user ID matches DB and transaction IDs, added Ethers.js signature verification during wallet creation, and addressed CertiK audit points. Also ran RabbitMQ through Docker and configured the environment in Zookeeper.
- Conducted **code reviews** for **Miracle Wallet**, optimizing time and space complexity, and significantly reducing the **API execution time by 20%**.
- Managed RabbitMQ and Zookeeper servers through Docker for streamlined project execution and scalability.
- Deployed the project on **AWS Lambda**, ensuring scalability and seamless performance under varying workloads.

EDUCATION

Chandigarh Group of Colleges, Jhanjeri (Mohali, India)

Bachelor Of Technology (Computer Science) - 6.96 June 2016 - June 2020

CIVIL SERVICES PREPARATION

Full-time preparation | 2020-2023

Developed strong analytical, time management, and self-discipline skills.

PROJECTS

Note Wallet

2024 - 2024

- Developed a highly secure authentication system, implementing JWT and refresh tokens to ensure session persistence.
- Built a Contract Factory, empowering admins with advanced role-based access control for approving sub-admins and managing token creation.
- Engineered a profit-driven Buy/Sell Mechanism, integrating automated profit-sharing models to optimize crypto trading strategies.
- Implemented Role-Based Access Control (RBAC) to enforce secure and efficient permission management across different user roles.
- Built using TypeScript, NestJS, PostgreSQL, Redis, RabbitMQ, Twilio, SendGrid-, Nodemailer, JWT, and Refresh Token to deliver scalable, secure, and real-time backend services

Plus Wallet [4] 2024 - 2025

• Designed and implemented a **feature-rich admin panel**, streamlining financial transactions, NFT marketplace, blockchain data visualization, and referral programs.

- Developed real-time dashboard analytics and dynamic modules like Transaction Data and NFT Transactions in React.js, with time-based filters, pagination, and seamless API integration.
- Created a multi-chain portfolio tool by scraping data from 13+ sources like Etherscan and BscScan, and optimized large-scale wallet fetching (50,000+) using BullMQ and **Token Bucket Algorithm** for high-performance data handling.
- Integrated AppsFlyer in backend to capture user interactions and app installs, enhancing data-driven decisions.
- Implemented Role-Based Access Control (RBAC) across backend and frontend Admins had full module access, while Sub-admins had Read/ReadWrite access as per permissions.
- Developed an automated blockchain health monitoring system using Cron Jobs to fetch latest blocks from testnet and mainnet RPCs, compare block differences, and update real-time health status with **Redis caching** and **CMC API**.
- Built using TypeScript, Node.js, NestJS, PostgreSQL, MySQL, Redis, BullMQ, RabbitMQ, AppsFlyer, JWT, Refresh Token, SendGrid, Twilio, and Cron Jobs for robust, scalable, and secure architecture.

Miracle Wallet 2025 - 2025

- Strengthened app security by resolving **CertiK audit points**, including strict validation to ensure JWT user ID matches the database before allowing address book or notification updates.
- Implemented a secure App Lock mechanism with increasing wait intervals (30s, 1m, 1h) after 3 failed PIN attempts to prevent brute-force access.
- Implemented wallet creation validation by verifying user signature using Ethers.js, ensuring only authorized users can create or restore wallets if one already exists.
- Migrated blockchain interaction logic from Web3.js to Ethers.js for Ethereum and BSC, enhancing reliability, performance, and future maintainability.
- Built using TypeScript, Node.js, MySQL, Redis, RabbitMQ, JWT, Refresh Token, Zookeeper, Docker, SendGrid, Twilio, and Cron Jobs for robust, scalable, and secure architecture.

MPC Vendor Wallet 2025 - 2025

- Developed backend functionality to manage vendor onboarding with optional free trial configuration by Admin.
- Implemented logic to track vendor API hit usage, restricting app access once the predefined limit is exhausted.
- Designed and enforced a post-trial monetization model requiring payment for continued app usage or API access.
- Added grace period support configurable by Admin vendors receive up to two 5-day grace periods before mandatory billing is enforced.
- Built using TypeScript, Node.js, MySQL, Docker, Zookeeper, and integrated scalable, modular service logic to maintain reliability under high demand.

SKILLS

- Languages: JavaScript, TypeScript, C++, DevOps & Tools: Docker, Kubernetes, Python, GoLang, Solidity.
- Frameworks & Libraries: React.js, Redux, Tailwind CSS, Material-UI, Node.js, Express.js, NestJS.
- Databases: PostgreSQL, MySQL, MongoDB (Mongoose), Redis.
- AWS, Git, CI/CD Pipelines.
- Architecture & Messaging: Microservices Architecture, RabbitMQ, BullMQ, WebSockets, Zookeeper.
- APIs & Integrations: GraphQL, REST APIs, AppsFlyer, CMC API.