

Tanmay Sonawane

Pune, India

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Work Experience

Falchain Labs

Software Engineer

Remote

June 2024 - Current

- Built an on-chain betting platform (Solana, Rust, Anchor) processing 10k+ bets with real-time pool updates and automated payouts; achieved 99.9% transaction success through robust account and error handling.
- Developed a high-throughput Solana trading bot leveraging Jito bundles and priority fees to achieve <500 ms execution latency and sustained volume generation across Raydium and Jupiter pools.
- Developed a staking smart contract in Solidity for the Ethereum ecosystem, allowing users to lock ERC-20 tokens with dynamic reward curves, customizable lock durations, and auto-compounding logic; supported 5,000+ unique stakers and distributed over \$250K in rewards.
- Implemented and deployed a custom blockchain explorer for a Layer-1 network using Blockscout, configuring smart contract indexing, enhancing the React-based UI, and containerizing the application with Docker for scalable deployment.

Juspay

Product Engineer

Bangalore

June 2023 - May 2024

- Engineered a location-tracking service in Rust that reduced API latency by 20% and enhanced ride-tracking accuracy and navigation reliability.
- Developed a session metrics library to trigger events to Kafka, facilitating A/B testing of applications and enhancing analytics capabilities and reducing system downtime by 15%.
- Conducted API profiling to identify bottlenecks causing high latency, optimizing performance through cached queries and database indexing, resulting in a 25% decrease in API response time.
- Deployed Pelias within Kubernetes, delivering a cost reduction of 5% compared to Google Maps, providing a robust open-source alternative.

Juspay

Product Engineer Intern

pune

January 2023 - June 2023

- Worked on the development of the SOS feature, including the implementation of contact fetching and storage functionalities for emergency scenarios.
- Boosted active driver count by 20% by building a driver location health check service using Redis and Kafka, which monitored real-time activity and automatically sent notifications to inactive drivers, encouraging re-engagement.

Projects

Bits-Of-Code

Collection of Blogs for Developers

Next.js, Node.js, Redux

Github

- Crafted a single-page application with Next.js and Node.js to facilitate the sharing of development blogs.
- Implemented static site generation for accelerated load times and increased efficiency.
- Leveraged Firebase for user authentication and data storage, alongside SWR for efficient data fetching.
- [blogs.soumyajit.tech](#)

Booking-Engine

Reservation System

Java, Spring Boot

Github

- Developed RESTful APIs for booking, availability checks, cancellations, and user management using Spring Boot and Spring Data JPA.
- Ensured data integrity with transactional flows and optimistic locking to prevent double booking; added idempotency and retry logic for reliability.
- Improved availability read performance using Redis caching and containerized the service with Docker for reproducible deployments.

Technical Skills

Strongest Areas

Algorithms, Machine learning

Programming Languages

C/C++, python, shell

Libraries/Frameworks

Terminal, Kafka, Kubernetes, Docker, Spring Boot, Solidity, React.js, Next.js, Typescript, Webpack, Git

Database

PostgreSQL, Redis, MongoDB, Firebase

Platforms

AWS, Vercel, Github

Education

JSPM Institute of Technology

Maharashtra, India

Information and Technology

June. 2023 -

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