

# Soumyajit Behera

Bhubaneswar, India

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## Work Experience

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### Falchain Labs

Remote

Software Engineer

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

Bangalore

Product Engineer

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

Bangalore

Product Engineer Intern

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

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### Bits-Of-Code

Next.js, Node.js, Redux

Collection of Blogs for Developers

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](https://blogs.soumyajit.tech)

### Booking-Engine

Java, Spring Boot

Reservation System

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

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### Strongest Areas

Data Structures, Algorithms

### Programming Languages

C/C++, Javascript, Rust, Java, Haskell

### Libraries/Frameworks

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

### Database

PostgreSQL, Redis, MongoDB, Firebase

### Platforms

AWS, Vercel

## Education

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### Birla Institute of Technology

Ranchi, India

IMSC in Mathematics and Computing

June. 2018 - May. 2023

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