

# Ashish Kumar Sahoo

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## Summary

Software Developer with **2.5+ years of experience** building secure, scalable, production-grade applications. Strong background in **full-stack development (React, Next.js, Node.js)** and backend system design. Delivered reliable systems, complex integrations, and performance optimizations aligned with industry best practices.

## Skills

- Languages:** C++, Java, JavaScript, TypeScript, Python, Solidity
- Frontend:** HTML, CSS, React, Next.js
- Backend:** Node.js, Express, Django, FastAPI, Spring Boot, REST APIs
- Databases:** PostgreSQL, MongoDB
- Messaging / Queues:** BullMQ, Redis
- Other:** Data Structures & Algorithms, Object-Oriented Programming (OOP)

## Experience

### Aarna Protocol

Nov 2023 – Aug 2024

#### Software Development Engineer – II

- Led end-to-end development of a **distributed staking and reward-calculation platform**, owning system design, API layers, integrations, and core business logic.
- Identified and fixed **critical computation and allocation bugs** that caused incorrect reward distribution, improving system correctness and consistency by **50%+**.
- Collaborated directly with external engineering teams to obtain undocumented specifications, accelerating integration timelines by **30%**.
- Mentored **2+ interns**, guiding them on system architecture, debugging practices, and code quality, increasing team productivity by **25%**.

### SubLabs

Jul 2023 – Nov 2023

#### Software Developer (Freelance)

- Built and maintained full-stack features for financial and analytics platforms, owning **backend services, frontend components, and API integrations** using Node.js, TypeScript, React, and Next.js.
- Refactored core computation and **business-logic modules** using scalable architectural patterns, **reducing deployment failures and production issues** by **20%**.
- Applied performance-oriented system design principles inspired by **Uniswap V3-style architectures**, improving data processing throughput by **25%**.

### BSBS Tech Pvt. Ltd.

Mar 2023 – Jul 2023

#### Software Developer (Web3 Developer)

- Owned end-to-end delivery of **P2P transactions, referral workflows, and token voucher systems**, designing core business logic and APIs using Node.js and TypeScript.
- Built and integrated scalable backend services with **React and Next.js**-based frontends, improving system correctness and user experience by **25–30%**.
- Strengthened production stability through structured debugging, code reviews, and incremental testing, reducing regressions by **20%**.

### NFTThing

May 2022 – Nov 2022

#### Software Developer Intern

- Built and maintained **ERC-721-based NFT systems**, owning full-stack components with emphasis on clean architecture and long-term maintainability.
- Designed and implemented a **custom internal API using NFTPort** to aggregate NFT metadata and analytics for internal consumption.
- Integrated NFT analytics into frontend dashboards, improving data visibility and reporting efficiency by **40%** while strengthening system reliability through testing and reviews.

## Projects

### AI-Live-Chat-Agent

[Demo](#)

- Built a **production-grade AI live chat system** with **RAG-based intelligence**, processing real-time customer conversations via an **Express API gateway, Redis rate limiting, and BullMQ-based job orchestration**.
- Integrated **Cerebras AI** for LLM inference, achieving **40% cost reduction** while maintaining response quality and conversational accuracy.
- Optimized synchronous chat flow and database access patterns, reducing end-to-end API latency by **60%** (**5–8s → 1–2s**).
- Enabled **horizontal scalability to 100+ concurrent sessions** with persistent, session-based conversation history and real-time AI responses.

## Education

### Institute of Management and Information Technology (IMIT), Cuttack

2020 – 2022

Master of Computer Applications (MCA) , CGPA: 9.18

Cuttack, India