SAMBIT KUMAR MOHANTY

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EDUCATION

B.Tech - Information Technology **2023 – 2027**
Odisha University of Technology and Research - CGPA - 9.20 *Bhubaneswar, Odisha*

EXPERIENCE

Software Development Engineer - Intern **Feb 2026 – Present**
noCnX Technologies *Pune, India*

- **Developing** the **R&D Portal**, an intranet platform to manage workflows for **test, inspection, proto, and issue requests**.
- **Implemented** secure **REST APIs** with **JWT/OAuth** authentication and role-based access control, aligned with **OWASP** standards.
- **Integrated** real-time request tracking and notifications using **Node.js**, **WebSockets**, and automated **CI/CD** via GitHub Actions.

PROJECTS

Secure-IPFS-Marketplace | Link | Next.js, Solidity, Hardhat, Ethers.js, IPFS **Jan 2026**

- **Spearheaded** the architectural design of a **secure decentralized asset layer** using **Solidity** and the **ERC-1155** standard, incorporating **ReentrancyGuard** and **ownable** modules to neutralize attack vectors and ensure 100% transaction integrity.
- **Unified** decentralized **IPFS** metadata encryption with **EIP-2981** to secure autonomous revenue streams and **token-gated access**.
- **Architected** a fund and **supply tracking engine** to centralize withdrawals, cutting administrative tasks by **60%**.

DevOptic-Real Time Collaborative Debugger | Link | Next.js, WebRTC, Socket.io **Jan 2026**

- **Orchestrated** a hybrid Socket.io & WebRTC architecture, achieving **sub-100ms latency** for simultaneous HD screen sharing, **rrweb DOM replay**, and collaborative drawing.
- **Developed** a secure **Remote Browser Isolation (RBI) proxy** using Next.js, implementing **SSRF protection** and **JWT middleware** to safely render and inspect external targets.
- **Constructed** a Node.js **File System Agent** bridging the browser sandbox via **Cloudflare**, enabling authorized **remote code execution** real-time file editing on guest machines.

Axion Flow-AI Workforce Digital Twin | Link | TypeScript, Express, FastAPI, Prisma **Oct 2025**

- **Conceived and Architected** a secure, **multi-tenant SaaS platform** with a role-based dashboard for Admins, Managers, and Workers, featuring an **AI-powered onboarding agent** that verifies new companies using third-party data APIs, improving new client verification efficiency by **40%**
- **Pioneered** a real-time **Digital Twin** visualization of the factory floor, using **WebSockets** to display live worker locations and statuses, significantly **enhancing operational awareness by 20%**.
- **Integrated** a specialized AI microservice to provide intelligent, data-driven task recommendations, which is **projected to improve worker productivity by up to 20%**

TECHNICAL SKILLS

Languages: C++, Python, JavaScript (ES6+), TypeScript, Java, SQL, Rust
Libraries: Tailwind CSS, Mongoose, Socket.IO, WebRTC, Prisma
Web & Infrastructure: Next.js, Node.js, Express, Docker, CI/CD (GitHub Actions), AWS (Basic)
Core Concepts: Cryptography Basics, Data Structures & Algorithms, OOPS, REST API Design

EXTRACURRICULAR

- **Drove technical success by applying analytical rigor** to complex architectural challenges, **Open Source contributions**, and competitive events like **EY Techathon** and **Google Gen AI Exchange**.
- **Fostered** community engagement and teamwork as an active NSS Member (2023-2027), while honing **strategic foresight** and analytical problem-solving through competitive Chess.