

MANOBENDRA MANDAL

Kolkata, West Bengal

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EDUCATION

Sister Nivedita University, Kolkata

2022 – 2025

Bachelor of Computer Applications CGPA: 9.16

Kolkata, West Bengal

Courses: Data Structures, Operating Systems, Computer Networks, Object Oriented Programming, Database Management System

EXPERIENCE

Aris - Agent Zero

Nov 2025 – Present

Role – Lead Backend Developer (Contract)

Remote

- Architected and scaled the backend for a Web3 platform with real-time events, AI content, and on-chain USDC rewards; designed and shipped **130+ REST APIs** across authentication, events, rewards, and analytics using Node.js, Prisma, and PostgreSQL.
- Built production-grade asynchronous and real-time infrastructure using **Redis, BullMQ, and Socket.IO**, powering background jobs, scheduled workloads, event processing, and user activity pipelines.
- Implemented **Privy/JWT wallet authentication, ERC-4337 smart accounts, and gasless transactions** via Pimlico; integrated Resend and deployed Dockerized services on **AWS**, owning production infrastructure and releases.

SKILLS SUMMARY

Languages: Rust, TypeScript, JavaScript, Solidity, Python, C, C++, Java

Web and Backend: Next.js, React.js, Node.js, Express.js, PostgreSQL, MongoDB, Prisma, Drizzle, Redis, BullMQ, Socket.IO

Blockchain: Solana, Anchor, Stellar, EVM, Starknet, Cairo, ethers.js, Wagmi, SPL Tokens, Stellar SEP Standards

Cloud and DevOps: AWS, Terraform, Docker, Docker Compose, Traefik, GitHub Actions, Linux

Tools and Services: Git, Postman, Hardhat, Foundry, Envio, Inngest, Resend, Pinata, Alchemy, OpenAI APIs, Gemini AI

PROJECTS

NordStern [🔗](#) | [Stellar](#), [TypeScript](#), [Next.js](#), [PostgreSQL](#), [Docker](#), [Terraform](#), [AWS](#)

2026 – Present

- Built a multi-tenant Anchor Infrastructure-as-a-Service platform for compliant fiat ↔ Stellar on/off-ramps, abstracting KYC, payments, treasury, and Stellar SEP integrations.
- Engineered a Docker-based provisioning control plane with **Terraform** to automate isolated anchor infrastructure, databases, secrets, configurations, and networking.
- **Winner – Stellar Builder Garage, Kolkata:** Built and demonstrated a production-oriented Stellar Anchor infrastructure stack integrating SEP-1/10/12/24 and Indian payment rails.

PRISM Protocol [🔗](#) | [Solana](#), [Rust](#), [Anchor](#), [Next.js](#), [TypeScript](#)

2026 – Present

- Built a programmable structured-credit protocol on Solana that tokenizes credit exposure into Prime, Core, and Alpha risk tranches with on-chain NAV and yield accounting.
- Engineered deterministic yield waterfalls, reverse-priority loss cascades, SPL tranche tokens, and an AMM for secondary-market price discovery.
- **Backed by a \$10K grant from Superteam India** to develop programmable credit markets on-chain.

Unzap Contract Lab [🔗](#) | [Starknet](#), [Cairo](#), [Next.js](#), [Starkzap SDK](#), [Docker](#)

April 2026 – Present

- Built a browser-based Dev Studio for Starknet with one-click Cairo contract templates and deployment workflows.
- Implemented Dockerized Cairo compilation and gasless deployment using Starkzap SDK and AVNU Paymaster.
- Enabled automatic generation of Next.js starter applications from deployed contracts for instant frontend integration.

CERTIFICATIONS

- **HackerRank Certifications:** Advanced SQL, React.js, and Java.
- **XPro Program on Cybersecurity:** API Testing by Employability.life in collaboration with Federation University Australia.

POSITIONS OF RESPONSIBILITY

- **Web Dev Team Lead, Skepsis Tech Club** (2024–25): Led development of internal platforms and official website.
- **Web Team Member, Zero Day Alliance** (2024–25): Built and maintained the official cybersecurity club site.
- **Guru (Educator), Web3 Wizards** (2024–25): Conducted smart contract workshops; onboarded students into Web3.

ACHIEVEMENTS

- **2nd Place – Core Hacker House India (\$1500)** 
Built “Coro Tashi”, a liquid staking protocol on Core Chain.
- **1st Place – MetaMask Dev Cook-Off (\$3000)** 
Developed “Linea Legacy”, a decentralized solution for securing and passing on digital and educational assets.
- **Winner – Two Tracks, Loops Hacker House** 
Built GrassDotFun, a decentralized betting platform; won 3rd Prize in NEAR (\$500) and Golem DB (\$300) tracks.