

SAYAN ROY

Email: rsayan570@gmail.com

Hashnode: [Read my Articles](#)

Website: <https://sayanroy.tech>

Github: <https://github.com/mesayanroy>

Linkedin: <https://www.linkedin.com/in/mesayanroy>

X : <https://x.com/mesayanroy>

Education

Sister Nivedita University

Aug 2024 - 2028

Bachelors of Technology in Computer Science Engineering

Work Experience

Indian Ambassador & Developer - [Stellar](#)

Feb 2026 - Present

As a Stellar developer and officially selected Stellar India Ambassador, I actively contribute to both the technical and community growth of the ecosystem. I have built and contributed to Stellar-based applications focused on secure payments, wallet interactions, account management, and non-custodial transaction flows, implementing reliable signing mechanisms and efficient asset transfer logic to ensure real-world assets usability. Alongside development, I promote Stellar within the Indian Web3 community by educating developers and students, mentoring new builders, supporting workshops and technical sessions, and creating awareness around Stellar's role in payments and financial inclusion. My role combines hands-on protocol development with ecosystem advocacy, helping drive adoption while strengthening the developer community around Stellar in India.

Founder - [Valdyum Labs](#)

Jan 2026 - Present

We're building an **open-source Web3 AI agent marketplace on Solana** where developers can deploy, sell, and monetize autonomous AI agents — think "App Store for AI agents" with on-chain identity, crypto micropayments, and GPU-local execution..using Ox402, where every API call triggers a self-signed Solana microtransaction with sub-second on-chain settlement. Registered agents as unique on-chain identities via anchor, storing compressed, tamper-proof metadata through CRUD based verifiable, hash-based retrieval.

Worked & contributed across 15+ Chains – Freelance, Web3 builder System Engineer

Dec 2025 - Present

Led the integration of Solana Superteam support for [Valdyum](#) enhancing functionality and user experience& Scaling. Designed and implemented an efficient payment Infrastructure pipeline for [SafeSol](#) L2 architecture, for Solana cryptographical data using **Zero Knowledge Proofs & Circom circuits**. Built DeFi infrastructure including [ERGO](#) lending protocols, DEX aggregators, cross-chain systems, ZK-based architectures, programmable node & pub/sub protocols, wallet acceleration, execution engines, and agentic infrastructure for running AI agents with optimized local compute. Implemented MEV-aware submission logic optimizing inclusion probability under network stress. Built account-scanning engine evaluating 2K+ accounts at sub-second intervals for liquidation opportunities. I enjoy working at the systems layer designing secure, modular, and efficient on-chain/off-chain architectures that improve execution, trust, and developer experience Rather adding more complexity.

Full Stack Engineer - [Snaapify](#)

July 2025 - Present

As a Founding member and a Full Stack Engineer at Snaapify, I architected and built a responsive, end-to-end photography & Videography booking platform connecting customers with vendors. I developed intuitive user interfaces that handle dynamic booking flows, search and filter systems for services, and vendor profile management. On the backend, I designed and implemented RESTful APIs, database schemas, and session-based logic to reliably manage user accounts, bookings, vendor availability, and payments. I collaborated closely with design and product teams to translate requirements into scalable solutions, optimized application performance, and ensured a seamless experience across customer and vendor workflows.

Generative AI Intern - [AI Wallah](#)

Mar 2025 - April 2025

Built AI-powered web modules integrating NLP-based logic into production applications. Developed backend inference APIs and structured data pipelines. Implemented model-to-frontend integration for real-time AI feature deployment. **Focused on Applied AI systems, backend engineering and data processing.**

Software Engineer Internship — [Goldman sach](#) (Forage) -

Nov 2024 - Dec 2024

I had a chance to gather online experience and learn skills. Completed the Goldman Sachs Engineering Virtual Internship on Forage, gaining practical experience in cybersecurity and cryptography. Worked on real-world tasks related to password protection, hashing algorithms, and system authentication. Learned how to identify and mitigate password vulnerabilities, implement secure cryptographic practices, and apply industry standards for data protection and access control.

Data Analyst Internship — [Deloitte](#) (Forage) -

Oct 2024 - Nov 2025

Completed the Deloitte Data Analytics Virtual Internship on Forage, where I gained hands-on experience in data-driven decision-making and business intelligence. Worked on real-world tasks involving data cleaning, visualization, and storytelling to generate actionable insights. Learned how to analyze and model datasets using spreadsheets, Tableau, and analytical techniques to support strategic business recommendations..

Projects

- **Ergo Protocol**: Ergo Protocol is a non-custodial lending protocol on Stellar that lets you supply, borrow, and earn yield against real assets safely and efficiently. Also, for RWAs for Compliances & Institutions which stellar has been missing, built natively on Soroban and live on Mainnet. Backed by Stellar Foundation.
- **AgentForge**: Agentic VM Execution with locally renting, hosting agents before running them on chain on stellar. Backed by Stellar India.
- **Valdyum**: Programmable Agentic De-Fi Infrastructure with optimize Compute Locally on Solana
- **Surge**: A high-performance Game-fi execution and liquidity interaction framework focused on optimized transaction routing, priority fee strategy experimentation, and congestion-aware submission logic on Celo.
- **SafeSol**: A private Transaction and security toolkit implementing RWA pre-execution validation, instruction-level risk detection heuristics, and simulation-based analysis to reduce exposure to malicious or unsafe contract interactions.
- **Aptos Swap**: An Aptos DEX aggregator with multi-hop route discovery and slippage-aware path optimization for efficient trade execution.

Skills

Languages:	Javascript, Typescript, Rust, Solidity, Java, Python, C, C++
SDK & Frameworks:	Next.js, Node.js, Express.js, Grafana, Docker, AWS, Azure, Anchor, Move, Soroban, Gitlab
Tools & Technologies:	Docker, PostgreSQL, MongoDB, Redis, Nginx, RabbitMQ, AWS, RCOM, Linux, Bash

Leadership & Awards

- Product Pitch to Investors in ISER KOLKATA as Freshman '24
- Internship Certification by Forage from Goldman Sachs & Deloitte as Freshman '24
- Was part of Spring fest '25 IIT Kharagpur.
- Selected as the Technical Executive for Geeks for Geeks SNU as a Freshman '25.
- 6x hackathons Wins
- Cracked the CIT exam(Common Internship Test), ranking in the top 0.1%
- Cracked the Entrance Exam for Online program of BS Degree in AI & DS at IIT Mandi '25
- Selected for the National Round for SAP Hackfest '25 (Out of 30k+ , top 300 devs), also overall travel and accommodation was paid by college for the very first time.
- Led team [Locals.discord](#) & Hosted a couple of tech events.
- Won all the tracks in stellar x RiseIn India Master Journey .
- Stellar Ambassador India '26
- Managing Stellar Indian Community and Coordinating with peers around the globe and onboarding new web 3 building
- Open source contributions across different chains like Stellar, Aptos etc