

Rajbir Biswas

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EDUCATION

SRM Institute of Science and Technology

B.Tech in Artificial Intelligence (CGPA: 9.16)

Chennai, India

2023 – 2027

TECHNICAL SKILLS

Languages: Solidity, C++, Java, Python, Typescript

Web Technologies: HTML, CSS, ReactJS, NodeJS, NextJS, ExpressJS, EtherJS, Web3JS, Smart Contracts, Hardhat

AI/ML & Cloud: OpenCV, PyTorch, Scikit-learn, Pandas, NumPy, GCP, AWS

Databases: MongoDB, MySQL, PostgreSQL, Supabase, IPFS

EXPERIENCE

Backend Intern at EarthSense Labs

Feb 2026 – Present

IIT Delhi

Remote

- Developing a geospatial backend platform enabling dataset upload and GeoServer-published WMS layer access.
- Implemented JWT authentication with strict workspace-per-user isolation (userA_ws, userB_ws).
- Built Cesium-ready search APIs supporting keyword, bbox, and proximity-based geospatial queries.
- Integrated PostGIS metadata storage and automated GeoServer REST publishing workflows.

Research Intern

Sept 2025 – Present

IIT Madras

Remote

- Engaged in blockchain security and fraud detection research under the Hedera protocol.
- Focused on dataset curation, fund-flow analysis, and real-time malicious activity prediction.
- Applied machine learning and graph neural networks (GNNs) for fraud detection challenges.

Backend Intern

Aug 2024 – Jan 2025

IDriss

Remote

- Developed backend for NFT-based services with 100s of concurrent users.
- Led multiple client projects with a team of 5 and retained clients for the company.
- Implemented security features ensuring safe transactions on Testnet for early Idriss users.

PROJECTS

Geospatial Dataset Publishing Platform (IIT Delhi) | *SpringBoot, GeoServer, PostGIS, Cesium, REST APIs*

- Built a backend system where users upload GeoTIFF/GeoJSON datasets and access them via GeoServer WMS layers.
- Automated workspace creation, datastore setup, layer publishing, and cleanup using GeoServer REST APIs.
- Extracted spatial metadata including bbox, centroid, CRS reprojection support for Cesium flyTo.
- Delivered unified search API returning WMS endpoints for frontend layer rendering.

Stake-X | *DeFi Token Staking & ICO Rewards Dapp*

- Built a token staking and ICO rewards platform with dynamic ICO pricing and APY management.
- Provides up to 80% liquidity access and interactive APY estimator for smarter financial choices.

ReTrace | *Reversible Ether DeFi Platform*

- Built the first DeFi platform enabling reversible Ethereum transactions inspired by Vitalik Buterin's proposal.
- Implemented an ERC20 token with DAO-governed reversal for fraudulent transfers.
- Introduced scam mitigation, transaction recovery, and fraud protection mechanisms.

HACKATHONS & ACHIEVEMENTS

- Winner at Centre for Networked Intelligence (CNI), IISc Hackathon - awarded an Apple Mac Mini (M4) prize package for the winning solution.
- Received 5100+ Idriss tokens as appreciation during internship (unlocking July 6th, 2025).
- Secured 4th position at CME Trading Challenge and won \$1500.
- Top 10 & Best Web3 Project among 3000+ participants at National Hackathon Dayzero.
- Achieved 3rd position (\$400) in Stellar track among 40+ global projects at HACKHAZARDS '25.