Sriz Debnath

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PROFILE

Passionate Computer Science & Engineering student specializing in Blockchain Development and the MERN stack. Skilled in building secure, scalable, and innovative solutions across Web2 and Web3 technologies. Experienced in developing decentralized applications, integrating smart contracts, and crafting efficient backend systems. Adept at problem-solving, quick learning, and delivering impactful projects from concept to deployment.

PROJECTS

The Varidian Protocol: Geospatial AI Asset-Indexer   Source Code
- A decentralized platform on the Celo blockchain using AI to verify, tokenize, and trade real-world ecological impact.
- Deployed a suite of interconnected smart contracts for Impact NFTs (ERC-721), governance tokens, a marketplace, and staking rewards.
- Leveraged Google's Gemini API for multimodal analysis of satellite imagery to generate objective "Proof of Impact" scores.

VitalLink: Modern Organ Donation Platform   Source Code
- A full-stack platform built with Next.js to modernize the organ donation process, enhancing trust and efficiency.
- Features role-based dashboards for donors, medical professionals, and admins with secure OTP authentication.
- Integrated a RAG-based AI assistant using Google Gemini to answer user queries about the donation process.
- Implemented a simulated, immutable ledger to provide a transparent and auditable history of critical actions like donor consent.

LavaLeap - 2D Arcade Platformer Game   Source Code
- Developed in Python (Pygame) with double-jump mechanics, animated sprites, and smooth camera movement.
- Implemented pixel-perfect collisions and procedurally generated infinite levels with dynamic hazards.
- Added real-time customization with in-game character/background switching and a health-based damage system.

EDUCATION

2023 - 2027   Bachelor of Technology in Computer Science and Engineering
Government College of Engineering and Leather Technology — MAKAUT University

Skills

Web Development	Web3 Techs, MERN Stack, Next.js, React, TypeScript, Tailwind CSS
Artificial Intelligence	Machine Learning, RAG, Google Gemini API
Blockchain	Solidity, Celo, Smart Contracts (ERC-721, ERC-20)
Core Subjects	Data Structures, Algorithms, Database Management Systems
Programming Languages	Python, Solidity, Javascript, C

Certifications

Google AI essentials   [Coursera Link](#)