Redji Jean Baptiste

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github.com/RedjiJB gitlab.com/RedjiJB Portfolio

Summary

Innovative Blockchain & AI Developer with expertise in designing privacy-preserving systems and ethical AI solutions. Combining technical skills with social impact focus to build inclusive decentralized applications that address global challenges. Currently pursuing a degree in International Development Studies & Economics for Management at the University of Toronto, applying interdisciplinary knowledge to create sustainable technology solutions.

Education

University of Toronto **Expected 2026**
BA - International Development Studies & Economics for Management *Toronto, Canada*

Technical Skills

- **Blockchain:** Ethereum, Solidity, Rust, Polygon, Solana, Web3.js, Truffle
- **AI/ML:** TensorFlow, PyTorch, Keras, NLP, RL, CV, Scikit-learn
- **Web Dev:** React, Next.js, TypeScript, Node.js, PostgreSQL, MongoDB
- **Cybersecurity:** ZKPs, Encryption, Audits, Formal Verification, OWASP
- **DevOps:** Docker, Kubernetes, Terraform, GitHub Actions, AWS, GCP
- **Web3/DeFi:** NFTs, DIDs, Staking, DAOs, IPFS, AMMs

Projects

Decentralized AI Governance DAO **In Dev, 2024**
- Developing a decentralized autonomous organization for community-governed AI with quadratic voting mechanisms that prevent plutocracy and ensure fair representation
- Implementing NFT-based identity and role management system with on-chain reputation tracking and automated treasury allocation based on governance decisions
- Solidity, Substrate, Chainlink, Polygon, IPFS, Aragon

AI Ethics Framework **In Dev, 2024**
- Creating an open-source toolkit for AI systems evaluation that automatically detects demographic biases across gender, race, and socioeconomic dimensions in model outputs
- Building interpretability tools that provide transparency for black-box models through SHAP values, gradient-based attribution, and counterfactual explanations
- Python, PyTorch, Streamlit, Docker, Scikit-learn, Fairness Indicators

Web3 Education Platform **Planned, 2024**
- Designing an interactive learning platform focused on blockchain development with hands-on smart contract tutorials that allow users to write and deploy test contracts in a sandboxed environment
- Implementing an automated validator system with real-time code feedback and scoring based on security best practices, gas optimization, and functionality
- Next.js, Solidity, Ethers.js, PostgreSQL, Hardhat, OpenZeppelin

Decentralized Voting System **Completed**
- Built a privacy-preserving voting application that uses zero-knowledge proofs (zk-SNARKs) to enable secure on-chain voting while maintaining voter anonymity and preventing double-voting
- Implemented decentralized identity verification that enables eligible voters to prove their right to vote without revealing personal information
- Created an intuitive front-end interface with MetaMask integration for seamless user experience and voter onboarding
- React, Solidity, Circom, IPFS, MetaMask, ethers.js

Research Interests

- DeFi protocols for financial inclusion in underserved markets, focused on developing self-sovereign identity solutions and community wealth-building through tokenized cooperatives
- Ethical AI governance frameworks with multilingual bias detection and remediation for globally representative AI systems that respect cultural contexts
- Environmental sustainability in blockchain through proof-of-stake optimizations, layer-2 scaling solutions, and carbon-neutral validator networks
- Public goods funding mechanisms using quadratic funding and regenerative cryptoeconomics for sustainable open source development infrastructure

Languages

- English (Fluent), French (Fluent), Haitian Creole (Native)

Additional Skills

- Project Management: Agile, Scrum, Kanban, JIRA
- Technical Writing: Docs, Whitepapers, Specs
- Community: Discord moderation, Forum ops, Events
- Research: Data Analysis, Surveys, Literature Review