

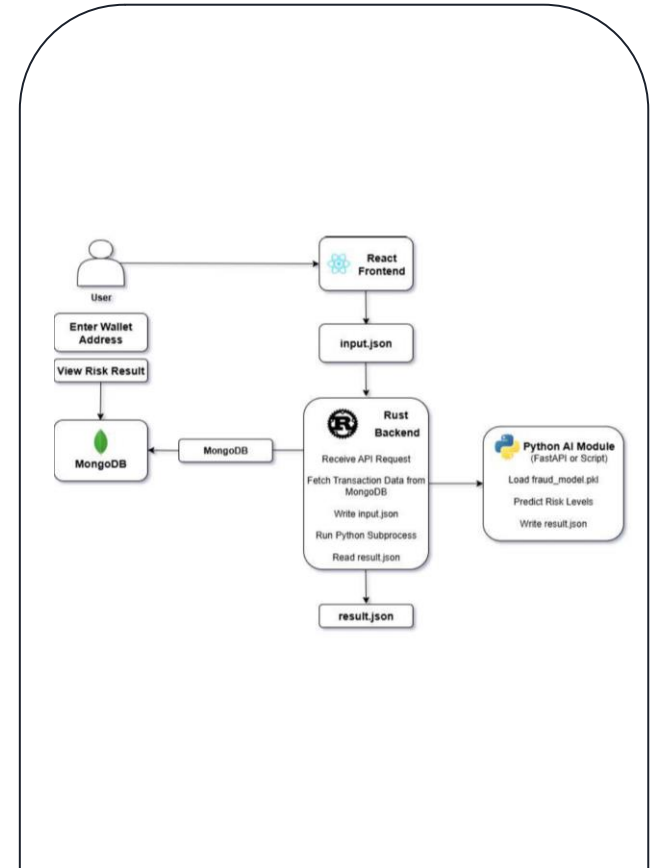


Block sheild

Built a real-time fraud detection system that fetches ICP blockchain transactions, stores them in MongoDB, and uses AI/ML models to flag suspicious activity.

The Problem of our Project –

- A system to detect fraudulent or suspicious blockchain transactions in real time
- Uses ICP (Internet Computer Protocol) blockchain data
- Combines AI/ML models with live data tracking
- Aim: Prevent scams, phishing, and illegal transfers



Crypto Fraud Losses Over Time

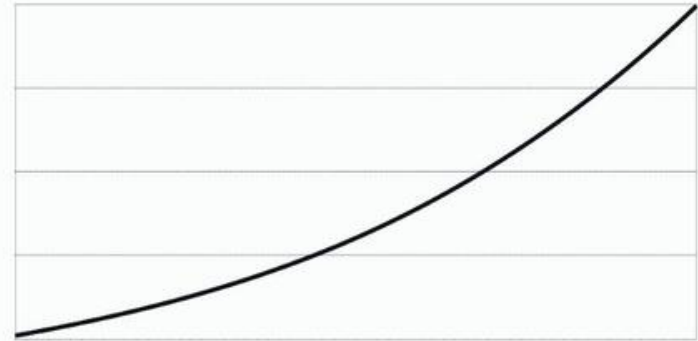
■ **\$14B+** lost to crypto scams and frauds in recent years

■ No **real-time fraud detection** available for the **ICP blockchain**

■ Users are exposed to:
Phishing attacks
Fake transactions
Unauthorized fund movements
Current detection methods are:
Manual
Slow

Fraud losses have surged 7x in just 5 years

[Y Axis]



[X Axis]

(USD Billions)

Web3 Trust Breakdown (User-Centric Problem)

- 75% of Web3 users feel **unsafe** using DeFi platforms
- Most rely on gut instinct — **no fraud signals or alerts**
- Existing tools: Don't support ICP ,Lack real-time detection ,Don't integrate AI

Existing players solving it...but poorly



Chainalysis



Expensive, enterprise-only



Built for forensic analysis, not **real-time fraud flagging**



Doesn't utilize modern ML models to score risk dynamically.



CipherTrace



Hard to Integrate with Custom Apps



No Real-Time Inference



No Modern AI Implementation



Nansen



Users have to interpret data manually, no automation or warnings.



Purely data dashboards, no predictive intelligence.



Visualizes on-chain activity, but doesn't flag fraud.



BlockSec



Focuses on Smart Contract Bugs, Not Wallet Transactions



Lacks End-User Tools or API Access .



No Support for ICP Blockchain

Existing players solving it...but poorly



PeckShield



Primarily focused on **smart contract vulnerabilities**, not wallet behavior .



No **real-time monitoring** of transaction patterns



Lacks **user-level risk prediction** or AI-driven detection



SlowMist



Heavy on **manual analysis and reporting**, not automation



Doesn't provide **automated fraud scoring or alerts** .



No AI/ML fraud engine to process live data streams .

Here's how our approach stands out...

- AI-Powered Fraud Detection
- Built with Rust for Performance
- Python ML Integration Made Simple
- ICP Blockchain + Live Monitoring
- Developer-First Design
- Secure & Transparent

Making it happen (Use-cases)

Current

Wallet Risk Scanning (Live) :Users can enter a wallet address to instantly check the fraud risk of its recent ICP transactions.

Real-Time Transaction Analysis :
Backend fetches and processes blockchain transactions through AI, returning categorized risk levels.

Near Future

Fraud Alert System for Wallet Owners :
Subscribe to alerts whenever risky or unusual activity is detected in a watched wallet.

API Access for Developers & dApps :
Offer plug-and-play fraud detection as an API service for integration with wallets and exchanges.

Distant Future

Self-Learning Fraud Detection Engine :
Continuously improves via reinforcement learning on user feedback and flagged activity.

Multi-Chain Support + Smart Contract Layer
Extend detection beyond ICP to Ethereum, Solana, etc., and launch smart contracts to auto-freeze high-risk assets.

Why Now?

The timing is perfect > because the risks are growing, and the solutions haven't kept up.

- **Surge in On-Chain Fraud**
- **ICP Blockchain is Growing, But**
- **Unprotected Mainstream 🤖 AI +**
- **Rust = Finally Feasible for Real-Time Detection**

Why are we the ones to do it?

- **New project**, but backed by strong practical experience in AI, blockchain, and system design
- Team of developers with hands-on skills in **Rust, FastAPI, MongoDB, and ICP integration**
- Built a **working prototype** with real-time fraud detection pipeline in just weeks
- Passionate about solving real-world problems with **technical precision and speed**



Trisha Mandal
AI -Module



Alok Ranjan
Backend



Anurag Shrivastav
LEAD

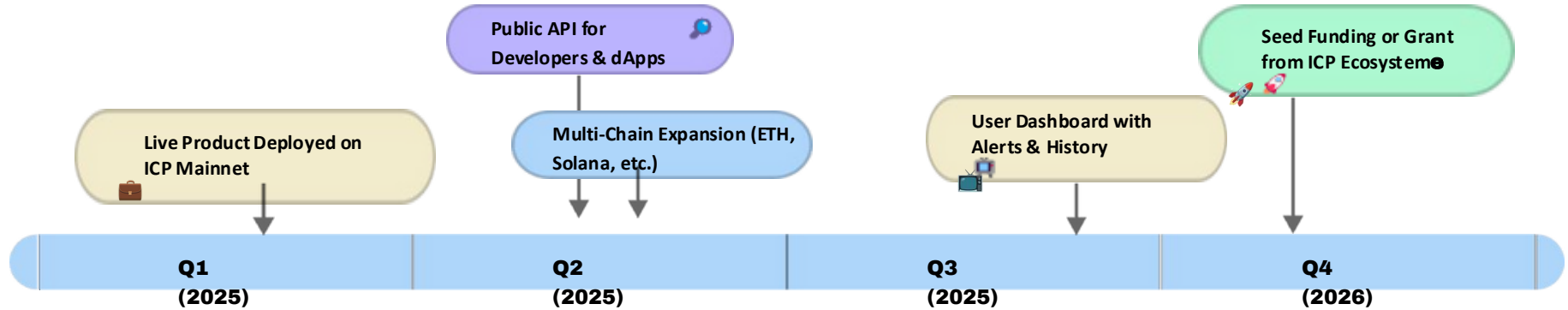


Mahaswi Bejugam
API



MohammadSaad Peerjade
Frontend

Where will we be next year if we win the hackathon/raise funds?



Here is how we make/will make money...

+10%

income increase/quarter

+25%

income increase/quarter

+40%

income increase/quarter



Transaction Risk Scanning Fees

Charge a **micro-fee** per wallet scan or transaction risk analysis via our API or frontend dashboard.

Premium User Subscriptions

Offer advanced features (alerts, risk history, monitoring multiple wallets) via a **monthly or yearly Pro plan**.



Fraud Detection-as-a-Service (FDaaS)

License our backend API to **wallets, DeFi protocols, and crypto exchanges** for integrated fraud risk scoring.

Staking + Validator Pool Revenue

Earn a share of **staking rewards** from managed pools and validator nodes with integrated fraud protection.



BLOCKSHEILD.com

<https://www.reddit.com/r/BlockSheild/>

BLOCK SHEILD

We detect and prevent blockchain fraud in real time using AI-powered transaction analysis on the ICP network.



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