Hedron DeFi Al Agent Reinventing DeFi navigation on Hedera Hashgraph

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Hello Future Hackathon

August 6, 2025

Agenda

- Team Introduction
- 2 Project Overview
- Technical Innovation
- Market Integration & Success
- Future Roadmap
- 6 Demo & Live Showcase
- Conclusion

Meet Our Team





Ashutosh Kumar

Developer Relations

India

- Community Building
- Developer Advocacy
- Technical Docs

Sebastian Diaz

Lead Developer

Colombia

- Full-Stack Development
- AI/ML Integration
- Smart Contracts

Expertise: Blockchain, Al, DeFi & Communities

The Problem We're Solving





Novice Users Challenges

Complex ecosystem to navigate Technical knowledge barriers Risk of losses from inexperience

Fragmented information sources

Expert Users Pain Points

- Time-consuming manual monitoring
- Missed opportunities in fast markets
- Complex analysis across protocols
- Lack of automation tools

Result: Users struggle with DeFi navigation & yield optimization

Our Solution: Hedera DeFi Al Agent



Al-Powered DeFi Navigator





- CONNECTION_AUTH authentication
- USER_MESSAGE processing
- AGENT_RESPONSE with
- analysis

 TRANSACTION TO SIGN flow

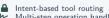


DeFi Tools Integration

- SaucerSwap DEX & quotes
- Bonzo Finance lending
- AutoSwapLimit orders
 Infinity Pool staking



Intelligent Automation



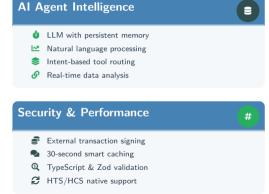
Multi-step operation handling
Real-time data analysis

Persistent memory context

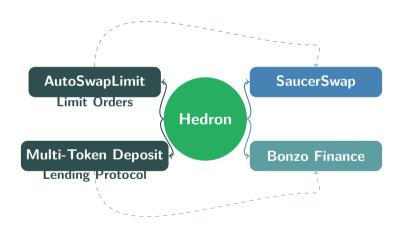


Technical Architecture & Innovation





Hedera DeFi Ecosystem Integration



Success Metrics & Validation



- WebSocket Agent: Multi-user real-time system
- 25+ DeFi Tools: Complete integration suite
- Al Intelligence: LLM with persistent memory
- 7 Message Types: Comprehensive communication

📇 Market Innovation

- First Al agent with AutoSwapLimit integration
- Natural language DeFi operations
- Intent-based routing to specialized tools
- External signing for maximum security

Result: Production-ready Al agent with comprehensive Hedera DeFi integration

Future Development Roadmap



- Smart alerts & notifications
- Additional protocol integrations
- Advanced analytics dashboard
- Mobile-responsive web interface

hase 2 (Q3 2026)

- Automated strategy execution
- ML-powered predictive analysis
- Portfolio optimization algorithms
- Advanced risk assessment

Phase 3 (Q4 2026)

- Multi-chain expansion
- Professional trader tools
- API for third-party integrations
- Enterprise solutions

Community Impact

- Democratize DeFi access for all users
- Increase Hedera adoption through easier UX
- Educational content for DeFi literacy
- Open-source contributions back to community

Live Demo Showcase

▶ WebSocket Agent Demo

Agent Interactions

- CONNECTION AUTH: User authentication
- Natural language: "Show me SaucerSwap vields"
- SWAP QUOTE: Structured price data
- AutoSwapLimit: "Set limit order 1000 SAUCE"
- Multi-step flows: Bonzo deposits

Technical Demo Points

- WebSocket messages: Real-time communication
- 25+ DeFi tools: Intelligent routing
- Memory persistence: Context awareness
- Transaction flow: External signing
- Error handling: Graceful failures

Demo Command: npm run start:websocket

Why Hedera DeFi Al Agent Wins



- First Al WebSocket agent for Hedera DeFi
- 25+ specialized tools integration
- Intent-based routing system

** Technical Architecture

- Real-time WebSocket communication
- Persistent memory for context
- Multi-user sessions support

P DeFi Integration

- SaucerSwap: DEX, quotes & Infinity Pools
- Bonzo Finance: Lending & borrowing
- AutoSwapLimit: Advanced limit orders

♥ Agent Capabilities

- Natural language DeFi operations
- 7 message types for comprehensive flow
- External transaction signing

🝸 Market Impact

- Democratizes DeFi access for all users
- Reduces complexity through AI assistance
- Enables automation without custody

Production Ready

- TypeScript & Zod validation
- Comprehensive error handling
- Smart caching & rate limiting

Thank You!



Questions & Discussion

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GitHub: github.com/rofergon/Hedron

Demo: [YouTube link to be inserted]