

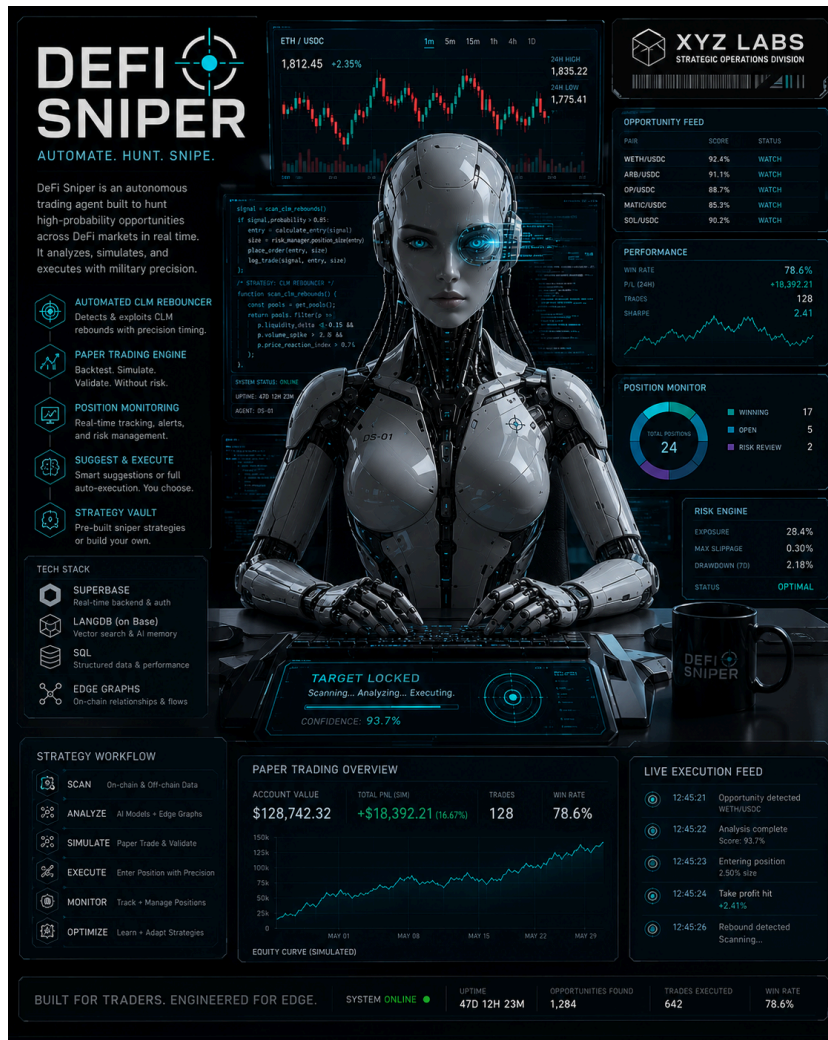
XYZ Labs DeFi Sniper

Technical Audit & Product Assessment

Architecture Audit • Marketing Package • Technical Review
Prepared for XYZ Labs

1. Executive Summary

DeFi Sniper is an AI-assisted quantitative trading platform focused on concentrated liquidity market making (CLMM). The platform combines market ingestion, financial mathematics, paper trading, strategy evaluation, graph relationships, and execution orchestration into a modular system.



2. Product Snapshot

Capability	Status
Market Data Indexers	Complete
CLMM Math Engine	Complete
Paper Trading	Complete
Strategy Engine	Advanced
Execution Pipeline	In Progress
Graph Database	Integrated
Vector Memory	Integrated
Risk Engine	Advanced

3. Architecture

Market Data



Normalization



Multi-Database Layer

(Postgres • Apache AGE • TimescaleDB • DuckDB • LanceDB)



Strategy Engine



Paper Trading



Risk Evaluation



Execution

4. Technology Stack

Component	Purpose	Value
PostgreSQL	Transactional storage	Reliable structured data
Apache AGE	Graph relationships	Strategy and asset graphs
TimescaleDB	Time series	Historical market analytics
DuckDB	Analytics	Fast reporting
LanceDB	Vector search	AI memory and retrieval
Paper Trading	Simulation	Risk-free validation

5. Workflow

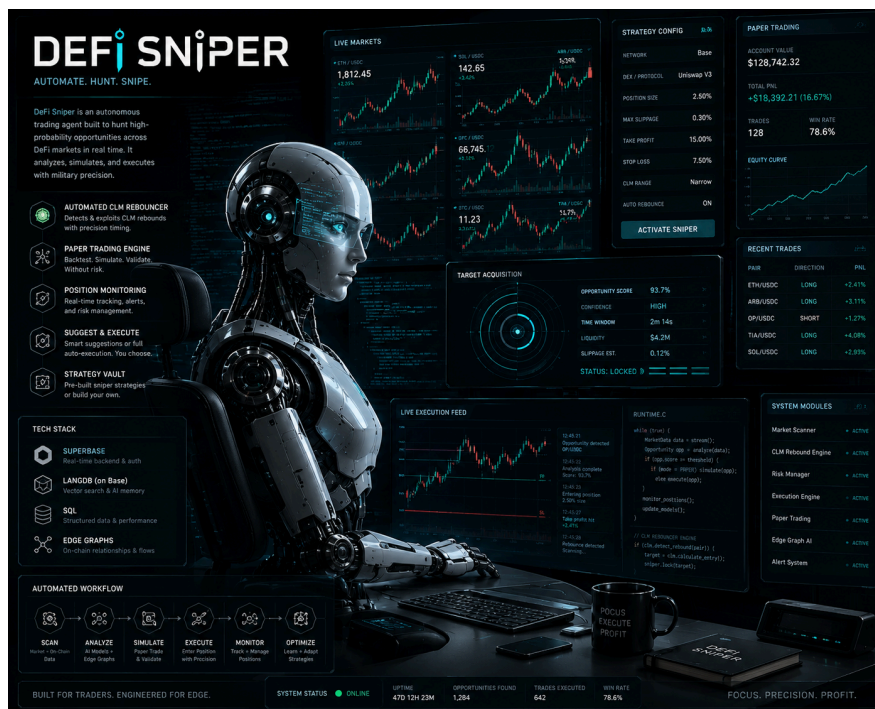
Scan Markets → Detect Opportunity → Validate Strategy → Simulate → Score Risk → Human Approval or Automated Execution → Monitor → Learn.

6. Key Strengths

- Modular architecture with clean separation of responsibilities.
- Financial mathematics isolated from execution.
- Graph relationships suitable for explainable AI.
- Paper trading enables safe strategy validation.
- Designed for multi-chain expansion.

7. Technical Assessment

Category	Assessment
Architecture	9.5 / 10
Financial Math	9.3 / 10
Extensibility	9.4 / 10
Documentation	8.8 / 10
Production Readiness	7.8 / 10



8. Roadmap

- Complete live execution connector.
- Expand strategy library.
- Institutional reporting dashboards.

- Multi-chain execution support.
- Autonomous AI-assisted optimization.

9. Marketing Position

Position the platform as a Quantitative Research Operating System for Concentrated Liquidity Markets rather than simply an AI trading bot. Emphasize research, simulation, explainability, and modular infrastructure.