RAM GOLLADI

Lead Applied Systems & Autonomous Agent Engineer | Founder, Aixion Lab

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EXECUTIVE PROFILE

Senior Systems & Applied AI Engineer with deep foundations in Quality Engineering, distributed automation, and production-grade agent supervision. Proven track record designing and shipping autonomous agent governance frameworks (Aixion Agent OS, 280+ agents cataloged), real-time financial market analytics

CORE TECHNICAL COMPETENCIES

Autonomous Agent Systems: Aixion Agent OS, Multi-Agent Orchestration (Hermes, GSD, Codex, Antigravity, Claude, Gemini
Languages & Runtimes: Python (FastAPI, PyTest, AsyncIO, Pandas, NumPy), TypeScript / JavaScript (Node.js, React, Next.js
Cloud & Distributed Systems: Docker, WebSockets, gRPC, GitHub Actions CI/CD, Event-Driven Architecture, PostgreSQL, SQ
Testing & Quality Engineering: Test Automation Architecture, Property Testing, Invariant-Driven Verification, Holdout Validat

FLAGSHIP ENGINEERING SYSTEMS

Aixion Control Tower (Mobile & Desktop) | Lead Architect & Developer

Tech Stack: Flutter, React, TypeScript, WebSocket Streaming, Ed25519 Signatures

- Architected mobile-first zero-trust governance cockpit providing real-time streaming supervision over autonomous AI coding agents.
- Engineered interactive mobile Git diff inspection and one-tap cryptographic human approval/denial before any disk writes or shell commands execute.
- Implemented fail-closed risk gate catching and blocking sandbox escape attempts and unauthorized credential/branch touches in real time.

Aixion Agent OS (Organization-Wide Multi-Agent Runtime) | Systems Architect

Tech Stack: Python, Agile State Machine, SHA-256 Invariant Engine, GitHub Actions

- Designed and cataloged 283 autonomous agents across 10 specialized functional domains with dynamic routing and role separation.
- Enforced strict 8-seat delivery organization (Business Analyst, PO, Hermes Architecture, GSD Scoped Patching, Senior QA, Quant Analyst).
- Achieved 100% block rate across 10/10 adversarial attack vectors (unauthorized commits, fake mocks, risk-gate tampering).

TradeBot (Governed Quantitative Market Infrastructure) | Quantitative Systems Engineer

Tech Stack: Python 3.12, AsyncIO, WebSockets, Pandas, PyTest, Statistical Replay

- Built fault-tolerant market intelligence ingestion engine separating feed freshness, subscription truth, and execution authority.
- Engineered frozen-hypothesis research pipeline with strict holdout partitions preventing data leakage and post-hoc rationalization.
- Developed automated offline analytics store and replay suite verifying trade safety decisions against tick-level historical data.

EDUCATION & VERIFIED EVIDENCE

Bachelor of Engineering (B.E.) in Computer Science • Complete verifiable case studies & commit logs at aixionlab.com