

AI Platform & Developer Infrastructure

Case Study: Enterprise Observability, Vector Storage & Agent Tracing

EXECUTIVE SUMMARY: INFRASTRUCTURE SCALING

An examination of our engagement with a high-growth developer platform vendor. We streamlined developer onboarding, created standardized evaluation frameworks for agent workflows, and upgraded multi-tenant vector indexing engines for enterprise buyers.

1. STRATEGIC ENGAGEMENT CONTEXT

The client provides core vector search and agent orchestration layers for enterprise software engineers. Rapid adoption resulted in product complexity, fragmented SDK experiences, and enterprise sales friction due to missing SOC2/HIPAA compliance modules.

2. CORE INTERVENTIONS & AREAS OF EXCELLENCE

- Unified Developer Experience (DX):** Standardized client SDKs across Python and TypeScript, reducing developer setup time from 3 hours to under 12 minutes.
- Enterprise Evaluation Suite:** Designed an automated LLM evaluation framework enabling users to continuously benchmark precision, recall, and hallucination rates in production pipelines.
- Multi-Tenant Data Security:** Led product requirements for field-level encryption and isolated tenant index partitioning to pass stringent enterprise procurement audits.

< 12m

TIME TO FIRST API CALL

100%

AUDIT COMPLIANCE PASS

+140%

ENTERPRISE ARR GROWTH

3. FEATURE ADOPTION & PLATFORM MATURITY

Platform Capability	Initial State	Target Architecture
Agent Tracing	Basic text log streams	Full DAG execution graph visualizer
Index Scaling	Single-node memory caps	Auto-scaling distributed HNSW clusters
Evaluations (Evals)	Manual CSV inspection	Continuous automated benchmark pipelines