

MATTHEW MILLER

Principal AI Platform Engineer | Governed LLM Systems & Agentic Workflow Platforms

Louisville, KY | (765) 532-6677 | mattmiller171@gmail.com | LinkedIn: [linkedin.com/in/matt-miller-raadz](https://www.linkedin.com/in/matt-miller-raadz) | Portfolio: portfolio.appassist.ai

PROFESSIONAL SUMMARY

Principal AI platform engineer and founder-level product builder specializing in governed, production-ready LLM workflow systems: RAG/retrieval, agent operations, structured outputs, source grounding, evals, human review, approval gates, and full-stack SaaS delivery. Owns AI platforms from architecture through production operations across workflow engines, APIs, cloud services, frontend surfaces, provider integrations, token/secret boundaries, and release controls. Career proof includes Forge + Bridge, AppAssist Launchpad, OpenClaw, OpenCause Compute, two GLI-33-certified real-time platforms, \$500K+ raised, 20k+ participants, and two issued U.S. predictive-modeling patents.

AI PLATFORM PROFILE

<ul style="list-style-type: none">• Governed AI systems: RAG/retrieval, citation-backed answers, source grounding, structured outputs, evals, review states, approval gates, publish/rollback, RBAC/API keys, and origin-checked embeds.• Agentic workflow infrastructure: isolated agent workspaces, durable memory/state/output folders, workflow lanes, queues, scheduled turns, browser/provider specialists, owner-review boundaries, and action routing.• LLM workflow infrastructure: document intake, evidence extraction, knowledge lifecycle, app memory, release controls, analytics/evals, and operator visibility for AI features that need trust rather than demos.	<ul style="list-style-type: none">• AI-native product delivery: preview-first build paths, generated-app intelligence, structured patch operations, deterministic file changes, tests/builds, repair-aware regeneration, Vercel previews, and Trust Ledger evidence.• Production platform ownership: workflow UX, APIs, provider connectors, token boundaries, audit logs, migrations, CI/CD, smoke tests, observability, runbooks, and incident response.• Founder/platform breadth: shipped regulated real-time platforms, SaaS workflows, mobile/web products, embedded control systems, patents, fundraising, and teams/processes from ambiguity to production.
---	---

CORE SKILLS

AI / LLM Systems	RAG/retrieval, embeddings/indexing, cited answers, source grounding, structured outputs, JSON Schema/Zod, evals, prompt/system design, tool orchestration, local-LLM workflows, human review
Agent & Workflow Infra	agent workspaces, durable memory/state/output folders, workflow engines, queues, cron/scheduled jobs, step ledgers, audit logs, provenance, approval gates, publish/rollback
Full-Stack AI Products	Next.js, TypeScript, React, Tailwind, Python/FastAPI, REST APIs, SSE, typed clients, Flutter/Dart, PHP, C++, SQL Server, PostgreSQL, MySQL, Drizzle
Cloud / Production	Azure, AWS, Vercel, Supabase/Neon, Firebase, CI/CD, migrations, preflights, smoke tests, observability, monitoring/alerting, caching, rate limits, incident response
Trust / Governance	RBAC, API keys, token/secret boundaries, origin checks, source intake, evidence extraction, review state, retention/delete controls, no-demo-data fallbacks, operator visibility

EXPERIENCE

Founder & Principal AI Platform Engineer | AppAssist

2026 - Present

- Built Forge + Bridge, paired AI knowledge products: Forge turns approved business documents into cited, reviewable, export-ready Knowledge with evidence, confidence, review state, exports, retention/delete controls, and Drive/API/source intake; Bridge publishes approved Knowledge through RAG retrieve/answer/chat APIs, widgets, analytics/evals, API keys, RBAC, origin checks, and smoke-tested launch workflows.
- Validated Forge/Bridge readiness with launch preflights, migration checks, CI, API/widget/worker smoke tests, widget-origin enforcement, worker auth, indexed-retrieval checks, release publish/rollback paths, Stripe credit/webhook rehearsal, and runbooks.
- Built AppAssist Launchpad, a preview-first AI app launch and operations cockpit for customer-owned apps with GitHub/Vercel/Supabase boundaries, encrypted token vault, durable workflow engine, step ledger, audit log, app memory, AI planner/advisor, private-preview requests, readiness summaries, restore points, and production approval gates.
- Designed Launchpad's AI build path around isolated branches/checkouts, generated-app intelligence, structured patch operations, deterministic file changes, tests/builds, Vercel previews, smoke checks, terminal failure reports, repair-aware regeneration, Trust Ledger evidence, and fail-closed production mutation posture.
- Extended OpenClaw into an internal AI operations control plane for AppAssist properties: root coordinator, specialist-agent workspaces, repo-backed prompts/state/outputs, scheduled workflow lanes, Telegram command console, route resolution, observability snapshots, queues, browser/provider specialists, and owner-review boundaries before external sends, publishing, code pushes, authenticated browser use, or destructive actions.
- Built OpenCause Compute / Cancer Knowledge Miner, a local-LLM volunteer-compute platform coordinating signed work packets from public biomedical literature across desktop workers and local models; added packet verification, model readiness, CPU/battery/idle controls, validation/provenance, consensus/review posture, impact surfaces, abuse monitoring, and release/rollback planning.
- Built DealOps + Tavrio service-business workflow products for proposal approval, buyer acceptance, Stripe payment links/webhooks, kickoff readiness, missed-lead recovery, event ingestion, scheduled follow-up, Twilio callbacks, send-policy/business-hours controls, audit trails, team workflows, and human escalation.
- Built AI-assisted development workflows around codebase analysis, structured recommendations, patch planning, deterministic update scopes, allowlisted test/build loops, repair-aware regeneration, human-reviewed changes, and practical developer-automation operating patterns.

EXPERIENCE CONTINUED

CTO / Lead Engineer (0-to-1) | Tour Trader Pro, Inc.

Nov 2021 - Jul 2025

- Architected and built the full stack for a regulated real-time event-wagering platform across Flutter mobile, React web, PHP + SQL Server backend, and Azure infrastructure; owned API design, backend services, pricing engine, cloud operations, certification readiness, and production support.
- Took Tour Trader Pro from idea to MVP in under two months; designed the real-time athlete-contract pricing engine and operational workflows for live event windows, monitoring, and production execution.
- Integrated 6+ third-party APIs and improved reliability with caching, rate-limit handling, observability, alerting, incident response, CI/CD, audit-friendly logging, and release readiness during peak event windows.
- Supported GLI-33 certification for Tour Trader Pro (2023) and Player Options (2025); mentored engineers through architecture walkthroughs, documentation, code review, and production-readiness checklists.

Founder / Lead Engineer | RAADZ, Inc.

Jun 2017 - Dec 2024

- Founded, built, and evolved a full-stack prediction/gamified survey and research platform used by 20k+ registered participants, with analytics, admin tooling, permissions, data handling, respondent workflows, and operations tooling.
- Modernized RAADZ into workspace-based research studies with questionnaires, respondent links, file stimuli, analysis workflows, Stripe billing, Supabase storage, Clerk auth, Postgres/Drizzle, OpenAI workflows, and PostHog analytics.
- Established TypeScript, ESLint, Vitest, and production-build verification; built Stripe webhook handling with signature verification, idempotency, subscription synchronization, and billing-state mapping.
- Raised \$500K+ as a solo founder and built predictive-modeling systems covered by two issued U.S. patents: US 11,669,848 and US 11,915,265.

Founding Engineer (0-to-1) | mBark

Jun 2024 - Aug 2024

- Built and launched an end-to-end Flutter iOS/Android MVP in under two months with map/list discovery, place search, reviews, favorites, rewards, Firebase Auth, push notifications, Azure-hosted backend services, and third-party location/place integrations.
- Translated a consumer product concept into technical architecture, app flows, backend/API needs, release scope, and rapid iteration plan for launch readiness.

Product Engineer / Lead Developer | Boss Industries, Inc.

Jan 2008 - Jun 2017

- Led B-CAN digital interface control software in C++ for under-deck PTO air compressor systems, combining embedded control logic, diagnostics, rugged field-facing UI workflows, and single-CAN safety integration.
- Reduced compressor-kit installation time from about 8 hours to about 2 hours through a simpler CAN-based integration model that replaced traditional pin-based engine integrations.

SELECTED AI PLATFORM SYSTEMS & CREDENTIALS

<p>Forge + Bridge: approved-document Knowledge preparation plus production RAG runtime with citations, release-managed APIs/widgets, analytics/evals, RBAC, API/widget keys, origin controls, and publish/rollback.</p>	<p>AppAssist Launchpad: customer-owned AI app cockpit with provider connectors, token vault, workflow engine, step ledger, audit log, app memory, preview build path, readiness summaries, smoke checks, restore points, and managed production boundary.</p>
<p>OpenClaw control plane: internal operations layer coordinating isolated agents, scheduled workflows, product/release QA, GTM/revenue ops, inbox triage, research/content pipelines, browser/provider workflows, telemetry, digests, and owner action routing.</p>	<p>OpenCause Compute: signed-packet volunteer/local-AI open-science workflow with desktop worker, model/resource controls, validation/provenance, consensus/review posture, impact dashboards, and conservative scientific language.</p>
<p>DealOps + Tavrio: service-business automation for proposal approval, payment progression, kickoff readiness, missed-lead recovery, scheduled follow-up, policy checks, webhooks, callbacks, retries, audit logs, and human handoff.</p>	<p>RAADZ AI/research platform: workspace-based studies, questionnaires, respondent links, file stimuli, analysis workflows, Stripe billing, Supabase storage, Clerk auth, Postgres/Drizzle, OpenAI workflows, and PostHog analytics.</p>
<p>AI-assisted development: codebase analysis, structured recommendations, patch planning, deterministic update scopes, test/build loops, repair-aware regeneration, human-reviewed changes, and developer-automation operating patterns.</p>	<p>Regulated real-time delivery: Tour Trader Pro and Player Options GLI-33 support, live pricing, audit-friendly logging, release readiness, monitoring, incident response, and operational runbooks.</p>
<p>Trust/governance patterns: source grounding, approvals, token/workspace boundaries, deterministic checks, RBAC/API keys, origin checks, retention/delete controls, operator visibility, and no-demo-data fallbacks.</p>	<p>Founder credentials: \$500K+ raised, 20k+ participants, two issued U.S. patents, 0-to-1 execution across AI infrastructure, SaaS workflow products, mobile apps, regulated platforms, and embedded systems.</p>
<p>Local-LLM operations: Ollama/model readiness, worker resource controls, signed work packets, validation/provenance, consensus/review posture, abuse monitoring, and release/rollback planning.</p>	<p>API/backend/cloud operations: typed APIs, SSE/streaming paths, webhooks, provider boundaries, CORS/origin checks, migrations, CI/CD, smoke tests, observability, incident response, and rollback paths.</p>

OPERATING STRENGTHS

- AI platform architecture: translate ambiguous product, trust, and workflow requirements into platform boundaries, data/control planes, UX surfaces, implementation milestones, and operations.
- Trust and safety posture: source grounding, auditability, token/workspace boundaries, approval gates, deterministic checks, operator visibility, no-demo-data fallbacks, and explicit non-goals.
- Production discipline: CI/CD, migrations, launch checklists, preflights, smoke tests, observability, caching, rate limits, incident response, audit-friendly logging, and compliance-aware delivery.
- Technical leadership: mentor engineers through code review, pairing, architecture walkthroughs, lightweight design review, documentation, and production-readiness checklists.
- 0-to-1 execution: repeatedly turns ambiguous ideas into shipped systems across AI infrastructure, SaaS workflow products, mobile apps, regulated platforms, embedded software, and founder-led products.