

Matthew Miller

Principal AI Platform Engineer | Applied AI Engineer | 0-to-1 Product Builder

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PROFESSIONAL SUMMARY

Principal AI platform engineer specializing in governed, production-ready LLM workflow systems: RAG/retrieval, agentic operations, structured outputs, source grounding, human review, approval gates, and full-stack SaaS delivery. Founder-minded 0-to-1 builder with production experience across AI platforms, workflow engines, mobile/web, backend, cloud, regulated operations, and customer-owned software platforms. Career proof includes Forge + Bridge, AppAssist Launchpad, OpenClaw, OpenCause Compute, two GLI-33-certified wagering products, \$500K+ raised, 20k+ participants, and two issued U.S. predictive-modeling patents.

SELECTED PROOF

- **AI platform depth:** built Forge + Bridge, a trusted knowledge stack that turns approved documents into reviewed, citation-backed Knowledge and delivers it through controlled RAG APIs, widgets, chat surfaces, evals, analytics, release lifecycle, RBAC/key boundaries, and origin-checked embeds.
- **Agent systems depth:** extended and operationalized OpenClaw into a file-backed control plane with isolated agent workspaces, durable memory/state/output folders, job queues, cron-driven isolated agent turns, Telegram workflow commands, approval classes, and supervised browser automation.
- **Founder + production credibility:** shipped regulated software, raised funding, scaled a consumer/workflow platform, built across SaaS/AI/mobile/cloud/embedded systems, and repeatedly turned ambiguous ideas into production-grade systems.

CORE SKILLS

AI / LLM Systems: RAG/retrieval, embeddings/indexing, cited answers, source grounding, structured outputs, JSON Schema, evals, prompt/system design, tool orchestration, AI agents, local-LLM workflows, human review

AI Platform / Workflow Infrastructure: document ingestion, evidence extraction, knowledge bases, cron-driven workflows, provider connectors, token/secret boundaries, workflow engines, queues, step ledgers, audit logs, provenance, RBAC, approval gates, publish/rollback

Full-Stack / SaaS: Next.js, TypeScript, React, Tailwind, Python, Flutter/Dart, JavaScript, PHP, C++, SQL Server, PostgreSQL, MySQL, REST APIs, OpenAI APIs, Twilio, Stripe, Clerk, Drizzle, Supabase/Neon, Vercel

Cloud / Operations: Azure, AWS, Firebase, CI/CD, migrations, preflight checks, smoke testing, monitoring/alerting, observability, caching, rate-limit handling, incident response, compliance-aware production ops

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, credits, retention/delete controls, and Google 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 Bridge and Forge production readiness with launch preflight, migration checks, CI, API/widget/worker smoke tests, widget-origin enforcement, worker auth, indexed retrieval checks, release publish/rollback paths, Stripe credit-pack/webhook rehearsal, and operational runbooks.
- Built AppAssist Launchpad, a preview-first AI app launch and operations cockpit for customer-owned apps, with GitHub/Vercel/Supabase provider 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 boundaries.
- Designed Launchpad's AI build path around isolated branches/checkouts, generated-app intelligence, structured AI patch operations, deterministic file changes, tests/builds, Vercel preview deployments, smoke checks, terminal failure reports, repair-aware regeneration, Trust Ledger evidence, and fail-closed production mutation posture.
- Extended OpenClaw into an AI-native operations control plane for AppAssist properties: root coordinator, isolated specialist-agent workspaces, repo-backed prompts/state/outputs, cron-managed workflow lanes, Telegram command console, route resolution, observability snapshots, queues, browser/provider specialists, and explicit 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, Ollama/model readiness, CPU/battery/idle controls, validation/provenance, consensus/review posture, impact surfaces, abuse monitoring, and release/rollback planning.
- Built DealOps and Tavrio service-business workflow products for proposal approval, buyer acceptance, Stripe payment links/webhooks, kickoff readiness, missed-lead recovery, DealOps event ingestion, scheduled follow-up, Twilio callbacks, send-policy/business-hours controls, audit trails, team workflows, and human escalation.

CTO / Lead Engineer (0-to-1) | Tour Trader Pro, Inc. | Nov 2021 - Jul 2025

- Architected and built the full stack for a regulated event-wagering platform across Flutter mobile, React web, PHP + SQL Server backend, and Azure infrastructure, supporting certification and production operations.
- Took Tour Trader Pro from idea to MVP in under two months; designed the real-time athlete-contract pricing engine and operational workflows for certification, 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); onboarded engineers with architecture walkthroughs, documentation, and lightweight planning/review practices.

Founder / Lead Engineer | RAADZ, Inc. | Jun 2017 - Dec 2024

- Founded, built, and evolved a full-stack prediction and gamified survey platform used by 20k+ registered participants, with analytics, admin tooling, permissions, data handling, and operational workflows.
- Raised \$500K+ as a solo founder and integrated OpenAI-powered summarization, in-app Q&A, survey analysis, and insight generation.
- 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 mobile MVP for dog-friendly discovery in under two months, including map/list search, favorites, reviews, rewards, Firebase Auth, push notifications, Azure-hosted backend services, and third-party location/place integrations.

Product Engineer / Lead Developer | Boss Industries, Inc. | Jan 2008 - Jun 2017

- Led B-CAN 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.

SELECTED PRODUCT SYSTEMS

- 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 release publish/rollback.
- AppAssist Launchpad: customer-owned AI app cockpit with provider connectors, token vault, workflow engine, step ledger, audit log, App Brain/memory diff, preview build path, readiness summaries, smoke checks, restore points, and managed production boundary.
- OpenClaw Operations Control Plane: extended OpenClaw into a repo-backed company operations layer for AppAssist properties, coordinating isolated agents, scheduled workflows, product/release QA, GTM and revenue ops, inbox triage, research/content pipelines, browser/provider workflows, telemetry, digests, and owner action routing.
- 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.
- DealOps + Tavrio: service-business automation for proposal-to-payment-to-kickoff and missed-lead/follow-up workflows with policy checks, retries, audit logs, webhooks, Twilio callbacks, and human handoff.
- AI-assisted development workflows: codebase analysis, structured recommendations, patch planning, deterministic update scopes, test/build loops, human-reviewed changes, and practical developer-automation operating patterns.

OPERATING STRENGTHS

- Product-to-platform ownership: shapes the problem, designs workflow UX, builds frontend/backend, integrates providers, defines data/control boundaries, and runs launch/ops.
- 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, preflight checks, smoke testing, observability, caching, rate limits, incident response, audit-friendly logging, and regulated/compliance-aware delivery.
- 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.