

MATTHEW MILLER

Principal Applied AI / AI Platform Engineer

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Portfolio: matt-miller.framer.website

PROFESSIONAL SUMMARY

Principal-level applied AI and platform engineer with 30+ years building production software and shipping AI-enabled systems across mobile, web, backend, cloud, and operations. Strong in LLM orchestration, structured outputs, tool-enabled workflows, integrations, evaluation, and production reliability. Known for turning ambiguous product ideas into working platforms, operational tooling, and scalable delivery systems with measurable business impact.

SELECTED IMPACT

- Shipped two GLI-33-certified event wagering products with audit-friendly workflows and production ops ownership.
- Integrated OpenAI-powered summarization, analysis, Q&A, and insight generation into production product workflows.
- Issued U.S. patents: US 11,669,848 (2023) and US 11,915,265 (2024) in predictive modeling systems.
- Built and shipped Tour Trader Pro from idea to MVP in under 2 months across Flutter mobile, React web, PHP/SQL Server, and Azure.
- Owned CI/CD, monitoring, alerting, caching, rate-limit handling, and peak-window reliability across multiple external APIs.
- Raised \$500K+ as a solo founder and translated customer/market ambiguity into shipped, iterated products.

EXPERIENCE

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.
- Designed the real-time pricing engine for athlete contracts and built operational workflows that supported certification, monitoring, and production execution.
- Integrated 6+ third-party APIs and improved reliability with caching, rate-limit handling, observability, and incident response during peak event windows.
- Owned CI/CD, alerting, audit-friendly logging, and production operations; 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

- Designed and evolved a full-stack prediction and gamified survey platform used by 20k+ registered participants, with analytics and admin tooling for day-to-day operations.
- Integrated LLM-powered workflows using the OpenAI API for summarization, in-app Q&A, survey analysis, and insight generation.
- Built data handling, permissions, and operational workflows with strong attention to reliability, user trust, and iterative product learning.

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 2 months, including map/list search, favorites, reviews, and rewards features.
- Implemented Firebase Auth, push notifications, Azure-hosted backend services, and third-party location/place integrations.
- Shipped frequent product iterations with a strong focus on usable search, browse, and review workflows.

Product Engineer / Lead Developer | *Boss Industries, Inc.*

Jan 2008 - Jun 2017

- Led development of B-CAN control software in C++ for under-deck PTO air compressor systems, combining embedded control logic, diagnostics, and rugged field-facing UI workflows.
- Reduced installation time for compressor system kits from about 8 hours to about 2 hours by simplifying control and safety integration through a single CAN connection.

CORE SKILLS

AI & ML	LLM workflows, agent-style systems, prompt/system design, structured outputs, tool orchestration, evaluation/tuning, automation, LightGBM, scikit-learn, Optuna
Platform & Cloud	Azure, AWS, Firebase, CI/CD, monitoring/alerting, production ops, observability, API integrations
Languages & Stack	Python, Flutter/Dart, React, JavaScript, PHP, SQL Server, MySQL, C++, Java, REST APIs
Operating Strengths	0-to-1 delivery, system architecture, human-in-the-loop workflows, analytics tooling, compliance-aware operations, vendor/stakeholder coordination

SELECTED PROJECTS & CREDENTIALS

- Automated Stock-Trading Bot (Python + Alpaca API): built ML-driven short-horizon models, automated execution, position sizing, and daily reporting.
- AI Dev Bot (Python + LLM APIs): built an agent-style developer workflow for codebase analysis, recommendation generation, structured outputs, and guided software updates with human review.
- Automated Sales Agent (LLM APIs + PHP + email workflows): built lead-research and outreach automation with personalized generation, inbound triage, and human escalation.
- Issued U.S. patents in predictive modeling systems: US 11,669,848 (June 2023) and US 11,915,265 (February 2024).