

Ryan Monroe

AI Platform Engineering Leader | Hands-On Engineering Management | Agentic Systems

Miami, FL | ryan@ryanmonroe.ai | (770) 403-2794 | ryanmonroe.ai | github.com/rm0nroe | linkedin.com/in/ryan-r-monroe

EXECUTIVE PROFILE

Hands-on engineering leader with 10+ years building and scaling platforms across regulated healthcare, financial services, adtech, enterprise software, and applied AI. Former Fidelity Director and current ImagineX Engineering Manager / Tech Lead on a Hims & Hers engagement. Leads teams while designing, debugging, and shipping full-stack systems, including multimodal local inference, multi-agent orchestration, MCP and tool integrations, persistent memory, human approvals, and internal AI-assisted engineering platforms.

LEADERSHIP AND TECHNICAL SCOPE

Engineering leadership: technical strategy, roadmaps, team management, architecture, delivery execution, mentoring, cross-functional alignment, regulated launches

Agent platforms: multimodal local inference, multi-agent orchestration, model and tool routing, MCP, reusable skills, persistent memory, scheduling, human-in-the-loop controls, evaluation-oriented workflows

Full-stack and cloud: TypeScript, Python, Java, React, Next.js, Node.js, Spring Boot, AWS, GCP, Azure, Docker, Kubernetes, PostgreSQL, Redis, Snowflake

LEADERSHIP EXPERIENCE

ImagineX - Engineering Manager / Tech Lead, Hims & Hers Engagement

Feb 2025 - Present | Miami, FL

- Manage five engineers and lead frontend and platform delivery for regulated digital-health products while remaining hands-on across architecture, planning, code review, debugging, and production execution.
- Pioneered an internal agent-orchestration platform for epic planning, ticket delivery, debugging, implementation review, and repeatable engineering workflows with explicit human review and traceable execution.
- Own launches for testosterone, menopause, and ED-related product lines, turning ambiguous product direction into shipped systems in a high-velocity environment.

Fidelity Investments - Director, Full-Stack Engineering

May 2023 - Jan 2025 | Miami, FL

- Led Technical Life Management strategy across 100+ applications, improving modernization priorities, planning horizon, execution alignment, and leadership visibility.
- Managed and mentored four senior engineers across multiple squads while contributing hands-on to architecture, data pipelines, frontend, backend, and delivery.
- Built Snowflake customer-attribute pipelines into LiveRamp and contributed to a 2-5% lift in custom conversion on a top year-over-year ad-spend initiative.

ADDITIONAL LEADERSHIP EXPERIENCE

Hudson MX - Director of Software Engineering

Apr 2020 - May 2023

- Led engineering for a large-scale Java / Spring Boot / Angular media-buying platform and the Atlanta office within a broader organization of roughly 25 engineers.
- Partnered with product and engineering leaders to strengthen delivery discipline, platform reliability, and engineering maturity during a high-growth phase.

Tin Roof Software / NCR and State Farm - Lead / Senior Software Engineer

2016 - 2020

- Led NCR's next-generation point-of-sale platform and a 15-person distributed Scrum team across the United States, Prague, and India.
- Built Spring Boot and Angular applications, test-automation systems, release processes, and enterprise delivery practices.

Independent Projects & Consulting - AI Systems and Security Intelligence

2024 - Present

- Build and operate autonomous AI systems spanning orchestration, tool execution, persistent memory, approvals, scheduling, monitoring, and multi-channel operations.
- Conduct adversarial LLM testing to evaluate model behavior, safety boundaries, prompt-defense weaknesses, and agent-reliability risks.

SELECTED AI PLATFORM SYSTEMS

AIC (AI Companion) - Local-First Multimodal Agent Runtime

- Designed and built a real-time voice, vision, memory, and tool-using agent with a fully offline Apple Silicon path and a separate NVIDIA Jetson deployment profile.
- Coordinated local inference and an embodied C++/Filament interface through typed Redis events, a central state machine, health telemetry, supervision, deployment automation, and end-to-end validation.

Genius Care - Production Clinical AI Agent Platform

- Built and deployed a clinical agent platform spanning voice reception, clinical documentation, encrypted workflow APIs, EHR and browser automation, PHI controls, durable writes, human escalation, and evaluation gates.

Toolshed - Agent Capability and Operations Platform

- Built and operated 112 reusable agent skills plus executable services with MCP integrations, scheduled workflows, approvals, multi-host deployment, monitoring, canaries, circuit breakers, drift detection, reconciliation, and rollback controls.

EDUCATION

Georgia Tech - Graduate coursework in Computer Science, Machine Learning concentration

Georgia State University - B.S. in Computer Science

PROFESSIONAL DEVELOPMENT

Anthropic - Claude Certified Architect, Foundations - exam preparation in progress