Ryan Monroe

Engineering Leader | Hands-On Architecture | Enterprise Platforms & Applied AI

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EXECUTIVE PROFILE

Hands-on engineering leader with 10+ years building and modernizing enterprise platforms across financial services, regulated healthcare, and adtech. Former Fidelity Director with experience leading modernization strategy across 100+ applications and managing senior engineers while contributing directly to architecture, data pipelines, and delivery. Led a 15-person distributed Scrum team across the United States, Prague, and India. Currently developing a retrieval-augmented generation (RAG) chatbot and document ingestion pipeline for Worldpay. Combines engineering management with cloud-platform delivery and AI-assisted engineering workflows.

LEADERSHIP AND TECHNICAL SCOPE

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

Architecture, cloud and data: enterprise application architecture, APIs and integrations, Java / Spring Boot, TypeScript / Node.js, Python, AWS, GCP, Azure, Docker, Kubernetes, PostgreSQL, Redis, Snowflake

Applied AI: agent orchestration, MCP and tool integrations, human approval gates, evaluation workflows, AI-assisted planning, implementation and review

EXPERIENCE

ImagineX - Engineering Manager / Tech Lead

Feb 2025 - Present | Remote

Worldpay

- Developing a retrieval-augmented generation (RAG) chatbot and document ingestion pipeline for Worldpay, connecting uploaded content to searchable knowledge used in conversational responses.
- Designing document processing and indexing workflows with access controls, asynchronous workers, evaluation gates, and recoverable release and rollback paths.

Hims & Hers

- Manage five engineers 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.
- Led frontend and platform delivery for regulated digital-health product launches, translating ambiguous requirements into shipped systems.

Fidelity Investments - Director, Full-Stack Engineering

May 2023 - Jan 2025 | Remote

- 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 EXPERIENCE

Hudson MX - Director of Software Engineering

Apr 2020 - May 2023 | Remote

- Led engineering for a large-scale Java / Spring Boot / Angular media-buying platform and the remote-first Atlanta engineering org 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 engineering for NCR's next-generation point-of-sale platform and coordinated 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.

ADVISORY EXPERIENCE

Independent - Fractional CTO, Security Space Ops (part-time advisory)

2023 - 2026 | Defense, Counter-UAS

- Set technology strategy and led four teams spanning full-stack software, machine learning, adversarial security, and electrical engineering.
- Worked regularly with the Medellín team and prospective public-sector customers, translating operational needs into technical direction and delivery priorities.

CURRENT PROJECTS

Genius Care | SuperGeniusLabs.ai

- Built and deployed clinical workflow software with encrypted APIs, EHR and browser integrations, durable writes, human escalation, and evaluation gates.

Hey Parley | HeyParley.ai

- Built an AI companion with real-time voice, vision, memory, and tool use, supported by typed Redis events, a central state machine, health telemetry, supervision, and deployment automation.

EDUCATION

Georgia Tech - Coursework toward an M.S. in Computer Science, Machine Learning concentration (2018-2019)
Georgia State University - B.S. in Computer Science