JEFFREY R. MILLER

ENGINEERING EXECUTIVE | STARTUP TEAMS, PLATFORMS & AI

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Engineering executive with 15+ years of experience building startup technology and teams from the ground up. Built an engineering function from zero and scaled another from 5 to 30, combining hands-on architecture and development with leadership across engineering, data, infrastructure, IT, and security. Established AI-assisted and agentic development practices across engineering and product. Brings deep healthcare experience spanning clinical platforms, sensitive data, and FDA-regulated software.

PROFESSIONAL EXPERIENCE

SALMA HEALTH

Vice President, Engineering | Remote | January 2025 - October 2026

Brain health company integrating clinical care, research, and technology, backed by an $80M Series A co-led by Mubadala Capital and ARCH Venture Partners; approximately 50 staff in the management services organization (MSO) and another 60 within the professional corporations (PCs), including providers and on-site staff.

Joined as founding technical leader and built the engineering function from zero to a 12-person technology team: 7 developers, 3 product managers, 1 IT Security/Operations specialist, and myself.

- Recruited across full-stack development, DevOps, data engineering, applied AI, and IT; led software delivery, infrastructure, IT, and security.
- Established AI-assisted and agentic development practices across engineering and product for coding, refactoring, testing, and code review. Enabled cross-project contributions and substantial refactors in hours, with engineers retaining responsibility for validation and quality.
- Led company-wide AI adoption through tool selection, onboarding, and training across Claude, ChatGPT, GitHub Copilot, and AWS Bedrock; established guidance for model selection, acceptable use, and cost management.
- Architected and built foundational platform services and event-driven integrations across EHR, CRM, telehealth, billing, and analytics; established data ownership and API contracts for reliable workflows.
- Led EHR migrations and clinical workflow delivery, coordinating engineering, product, clinical operations, and vendors through cutover and stabilization for telehealth, chart notes, enrollment, and patient reminders.
- Led development of AI-enabled clinical tooling and a call-analysis pipeline that processed 50,000+ recordings, connecting ingestion, transcription, and language-model processing with clinical and operational use cases.
- Served as acting CISO, driving HIPAA and SOC 2 readiness, vendor risk and BAA reviews, penetration-test preparation, incident response, and business continuity; authored the generative AI acceptable use policy.
- Owned AWS infrastructure and engineering operations, including CI/CD, observability, access controls, and production incident response; oversaw IT readiness, endpoint management, and managed-service partners supporting clinic operations.

COGNOA

Vice President, Engineering | Remote | March 2023 - October 2024
Senior Director, Engineering | Remote | July 2021 - March 2023
Director, Engineering | Remote | January 2021 - July 2021
Lead Engineer | Remote | September 2017 - December 2020
Senior Software Engineer | Remote | August 2015 - August 2017

Morningside-backed pediatric AI diagnostics company. Progressed from sole full-stack engineer to VP, scaling engineering from 5 to 30.

- Led development of Canvas Dx, the first FDA-authorized AI-powered autism diagnosis aid designed for primary care.

- Scaled the engineering team from 5 to 30 through structured hiring, standardized interviews, and recruiting automation; developed engineering managers and maintained the company's lowest turnover.
- Partnered with clinical and product leaders to increase clinician adoption 10x within three months by translating customer feedback into targeted product and process improvements.
- Reduced release cycle time for FDA-authorized AI/ML medical software by 75% (from weeks to days) by refining design controls and automating test-output pipelines.
- Led ISO 13485 and SOC 2 Type II certification efforts, including audit preparation, quality controls, and penetration testing.
- Reduced annual engineering costs by more than 22% through vendor negotiations, service consolidation, and AWS optimization.
- Accelerated delivery by 20% and expanded test coverage by 60%, reaching 80%+ coverage across platforms; negotiated QA and development contracts, yielding $150K in first-year savings.
- Modernized infrastructure with Docker and AWS ECS, automated CI/CD, and introduced code analysis with CodeClimate and monitoring with Sentry; aligned teams through clear goals, coaching, and cross-functional planning.
- Partnered with data science, clinical research, and regulatory teams on clinical validation supporting FDA Breakthrough Device designation; delivered software under HIPAA and medical-device quality requirements.
- Built the web and API foundation as the sole full-stack engineer, supporting iOS and Android products with scalable data models and backend services.

FUNNY OR DIE

Software Engineer | San Mateo, CA | March 2013 - August 2015

- Built features for a comedy video platform serving 20M+ monthly unique visitors and nearly 65M monthly video views, including a Redis-backed activity feed handling millions of interactions.

COVERHOUND

Software Engineer | San Francisco, CA | August 2011 - February 2013

- Joined as the first engineering hire and built a real-time home and auto insurance comparison platform; owned work across product design, development, integrations, and infrastructure.

ADVISORY EXPERIENCE

JIGSAW DIAGNOSTICS

Partner & Engineering Advisor (Part-time) | Remote | May 2021 - Present

Telehealth provider delivering pediatric autism evaluations and personalized care plans through licensed clinical psychologists, with partnerships with Anthem and Kaiser Permanente.

- Built the foundational telehealth and EHR MVP and recruited engineering talent. Continue hands-on development and advise on architecture, platform growth, and HIPAA requirements while mentoring the engineering team.

TECHNOLOGY & LEADERSHIP

Leadership: Team building, organization design, hiring, manager development, roadmapping, vendor management

AI: AI adoption, agentic development, Claude Code, GitHub Copilot, Codex, MCP integrations, AI governance

Technology: Ruby on Rails, TypeScript/JavaScript, Python, APIs, event-driven architecture

Infrastructure: AWS, Docker, ECS, PostgreSQL, CI/CD, observability

Compliance: FDA-regulated software, HIPAA, SOC 2, ISO 13485

EDUCATION

Notre Dame de Namur University | B.S., Computer and Information Science, Software Engineering

Summa Cum Laude | 3.92 GPA | Outstanding Academic Achievement Award