

JEFFREY R. MILLER

ENGINEERING EXECUTIVE | STARTUP TEAMS, PLATFORMS & AI

Carlsbad, CA | 650.839.3478 | jeff@humani.se

[linkedin.com/in/ibanez270dx](https://www.linkedin.com/in/ibanez270dx) | github.com/ibanez270dx | humani.se

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 - Present

- Built the engineering function from zero, recruiting across full-stack development, DevOps, data engineering, applied AI, and IT. Led software delivery, infrastructure, IT, and security for a growing mental healthcare business.
- Established AI-assisted and agentic development across engineering and product for coding, refactoring, testing, and code review. Enabled contributions across projects and substantial refactors in hours, with engineers responsible for reviewing and validating the work.
- Led company-wide AI adoption through tool selection, onboarding, and training; established guidance for model selection, acceptable use, and cost management across Claude, ChatGPT, GitHub Copilot, and AWS Bedrock.
- 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

- Partnered with clinical and product leaders to increase clinician adoption 10x within three months through customer feedback and 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.

COGNOA | EARLIER LEADERSHIP & ENGINEERING ROLES

Senior Director, Engineering | July 2021 - March 2023

- 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.
- 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.

Director, Engineering | January 2021 - July 2021

- Modernized infrastructure with Docker and AWS ECS, automated CI/CD, and introduced code analysis and monitoring; aligned teams through clear goals, coaching, and cross-functional planning.

Lead Engineer | September 2017 - December 2020

- 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.

Senior Software Engineer | August 2015 - August 2017

- 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 | March 2013 - August 2015

- Built features for a 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 | 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

- 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

Team building, organization design, hiring, manager development, roadmapping, vendor management | AI adoption, agentic development, Claude Code, GitHub Copilot, Codex, MCP integrations, AI governance | Ruby on Rails, TypeScript/JavaScript, Python | AWS, PostgreSQL, APIs, event-driven architecture, CI/CD, observability | 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