

Matthew Pazaryna

Principal Software Engineer & Technical Lead

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PROFILE

Principal software engineer and hands-on technical leader with 40 years of experience delivering products from enterprise platforms to modern AI applications. I design agentic-first engineering systems that apply specialized AI agents across the classical software development lifecycle, from discovery and requirements through architecture, implementation, review, UAT, release, and operations. People remain accountable for business meaning, technical synthesis, security decisions, acceptance, and production. Agents expand execution capacity and preserve traceable evidence. My background spans full-stack product development, healthcare data integration, platform modernization, and privacy-first AI.

CORE EXPERTISE

Technical Leadership Software architecture Technical strategy Team leadership Mentoring Client partnership	Full-Stack Engineering C# .NET Python TypeScript React Ruby on Rails SQL Server PostgreSQL API design
Systems & Delivery Enterprise platforms Healthcare data EDI 834 Database design Cloud and on-premises delivery System modernization	AI Engineering Agentic systems Apple MLX LangChain MCP Privacy-first architecture Local inference
Agentic SDLC Architecture Multi-agent orchestration SDLC design Human decision gates Specification-driven development TDD UAT traceability Release evidence	Apple Platform SwiftUI HealthKit Foundation Models iOS/macOS development

RECENT LEADERSHIP & DELIVERY

Principal Software Engineer & Consultant

Jul 2023 - Present

[Independent](#) | [Remote](#)

Designing and leading agentic-first software delivery: a practical implementation of specialized AI agents across the complete SDLC, proven through production healthcare platforms and AI-enabled products.

- Designed and implemented an Agentic SDLC that coordinates specialized agents from discovery and requirements through architecture, implementation, independent review, testing, UAT, release work, and operational evidence.
- Defined durable contracts between stages: source-backed requirements, PRDs, execution specifications, acceptance scenarios, bounded agent assignments, test evidence, UAT findings, and exact-release records.
- Kept authority explicit throughout the system. Domain experts decide business meaning; the principal engineer owns architecture and synthesis; accountable people retain security and acceptance authority plus production control.
- Proved the model as the senior builder for Proactive Logic's Agave platform, owning architecture, technical planning, implementation, verification, plus release preparation. The production pharmacy benefit management enrollment system transforms incoming correctional enrollment feeds into EDI 834 documents.
- Built the modular .NET 10 and SQL Server pipeline for parsing, canonical persistence, day-over-day delta detection, exception controls, EDI generation, telemetry, plus operator-facing evidence, with React and TypeScript interfaces.
- Delivered v2.7.1 with a release-era verification record of 2,611 passing .NET tests, 328 web unit tests, and 63 Playwright end-to-end checks.

EARLIER EXPERIENCE

Lead Engineer Stealth Startup Annapolis, Maryland - Owned technical direction and hands-on delivery across UX, backend architecture, data modeling, feature development, and release planning. - Designed financial modeling tools for home-purchase decisions, rental analysis, and investment strategy evaluation.	Mar 2020 - Jul 2023
Technical Lead & Development Manager Sungard Availability Services Annapolis, Maryland - Led and mentored distributed engineering teams across the United States, India, and Costa Rica. - Combined technical-lead and product-management responsibilities, owning architecture, roadmap, customer relationships, and delivery priorities.	Jan 2011 - Jan 2020
Staff Engineer AT&T (via USi acquisition) Annapolis, Maryland - Led development of a large-scale reporting platform for SLA monitoring and event management. - Directed a portal modernization initiative that moved legacy capabilities to a Ruby on Rails architecture.	Jan 2006 - Jan 2011
Senior Developer The National Academies Press Washington, DC - Architected database systems and full-stack applications supporting complex scientific publication workflows. - Mentored engineers and established development practices that improved team delivery and maintainability.	Jan 1999 - Jan 2006
Manager of Information Services Regency Homes Built production workflow systems supporting homebuilding operations.	Jan 1993 - Jan 1999
Application Developer The Washington Center Designed and delivered database systems supporting nonprofit programs and operations.	Jan 1987 - Jan 1993

SELECTED PRODUCTS

Chiro	Privacy-first chiropractic SOAP notes with on-device AI
Resin	AI agentic system for nonprofit fundraising analytics
Kairos	AI-augmented productivity system with load-based self-regulation

EDUCATION & PROFESSIONAL DEVELOPMENT

Education - University of Maryland - Graduate Studies, Rehabilitation Counseling (1987) - Seton Hall University - Bachelor's Degree (1985)	Selected AI Credentials - AI-Powered Software and System Design - DeepLearning.AI / Coursera - Team Software Engineering with AI - DeepLearning.AI / Coursera - Introduction to Generative AI for Software Development - DeepLearning.AI / Coursera - Introduction to LangGraph - LangChain Academy
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