

MARTY SPALLONE

Senior AI Solutions Architect | Engineering Leader

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PROFILE

Hands-on senior software engineer and solutions architect with 35 years in application development, including 15+ years delivering healthcare technology at Cigna. Builds AI-enabled applications using Python, AWS, and agentic workflows, backed by deep C#/.NET experience. Combines architecture leadership with direct implementation, mentoring, and team delivery - from business requirements through production.

PROFESSIONAL EXPERIENCE

Founder | AI Product & Solutions Architect

Resolve Solutions, LLC | Jan 2026 - Present

- Architect and build **JABO**, an AI-enabled CRM for service businesses, connecting customers, jobs, recurring scheduling, and quotes through a Flutter app and Python/FastAPI backend on AWS.
- Built **Ask JABO with Strands Agents and Amazon Bedrock**, using business-service tools to automate customer, job, and quote creation with human confirmation and server-side validation.
- Developed **asynchronous agent workflows** using SQS FIFO, Lambda workers, and DynamoDB execution state and events, separating agent processing from client requests.
- Implemented tenant-scoped tools and approval controls that keep permissions, pricing calculations, and business rules outside model reasoning.
- Built quote workflows with immutable versions, auditable events, public links, and asynchronous delivery processing; integrated one-time and recurring job scheduling.
- Own product strategy, UX, architecture, engineering, and release delivery. Automated AWS deployments with CloudFormation/SAM and GitHub Actions.
- Built and launched **Resolve Reinvent**, a wellness and recovery SaaS app for iOS, Android, and web, and **FFT Social**, a conversation and perspective-analysis platform.

CORE TECHNOLOGIES

AI: Amazon Bedrock, Strands Agents SDK, tool calling, asynchronous agent workflows, human-in-the-loop controls, RAG, OpenSearch

Application & cloud: Python, FastAPI, Flutter/Dart, C#/.NET, REST APIs, AWS Lambda, API Gateway, DynamoDB, SQS, EventBridge, S3, CloudFormation

Platforms & security: PostgreSQL/Aurora, SQL Server, Docker, Kubernetes/EKS, OpenShift, GitHub Actions, GitOps, OAuth/OIDC, JWT, IAM

EDUCATION & CERTIFICATIONS

M.S., Computer Science | Rensselaer Polytechnic Institute

B.S., Computer Science & Mathematics | Central Connecticut State University / UCONN

AWS Certified Cloud Practitioner | Microsoft Certified Professional (MCP)

ENTERPRISE EXPERIENCE

Solution Architect | Enterprise Applications, Cloud & Platform Architecture

Cigna | Mar 2020 - Mar 2026

- Led architecture and technical direction for enterprise healthcare initiatives, partnering with business, product, engineering, security, data, and cloud teams.
- Designed distributed applications and secure integrations using REST APIs, AWS Lambda, API Gateway, Aurora PostgreSQL, event-driven services, and container platforms.
- Owned architecture across AWS environments with **more than \$5M in annual cloud spend**; drove governance, workload optimization, and technology standards.
- Led FinOps, right-sizing, and platform rationalization initiatives that **reduced non-labor cloud spend by approximately 20%**.
- Guided modernization across AWS, Kubernetes/EKS, and OpenShift; established deployment standards with Helm, Argo CD, GitOps, CI/CD, and observability.

Technical Lead / Solution Architect

Cigna | Mar 2010 - 2020

- Led hands-on design and development of underwriting, rating, and core healthcare applications using .NET/.NET Core, AngularJS, SQL Server, DB2, and REST APIs.
- Modernized legacy systems toward cloud-ready services and containers; implemented application and database CI/CD with GitHub, TFS, Jenkins, and Redgate.

SELECTED EARLIER EXPERIENCE

Solution Architect / Technical Lead | Pfizer | 2004 - 2006

Built clinical reporting applications and a reporting-engine framework using ASP.NET, SQL Server, and Oracle; optimized stored procedures and long-running queries. Guided clinical data warehouse architecture.

Founder / Owner | Blue Object Software, LLC | 2002 - 2004

Designed intelligent mailing-system architecture for Gunther International with real-time Windows CE components in embedded C++. Built Cigna reimbursement/payment modules using C#, ASP.NET, and DB2.

Senior Consultant | Advanced Decisions / UPS | 2001 - 2002

Designed and developed a COM+/MTS dynamic load-balancing service in Visual C++/ATL, with custom algorithms, asynchronous multithreaded remote-object creation, and administration tools.

Senior Software Engineer / Technical Lead | Canberra Industries | 1999 - 2001

Led multi-user laboratory analysis software spanning data acquisition, calibration, quality assurance, and reporting using C++/MFC, ActiveX, SQL Server, and Oracle.

Software Manager | PricewaterhouseCoopers | 1998 - 1999

Led full-lifecycle development of TRITON life and annuity insurance software using Visual C++, MFC/COM/ATL/STL, and SQL databases.

Earlier systems engineering | Telepartner & MERGENT | 1989 - 1997

Developed network data-link software using NetBIOS, IEEE 802.2, and X.25; led C++ desktop/network security and single sign-on products.