Phone: 470-362-0077 linkedin.com/in/david-bailey-sr

DAVID BAILEY

Principal Architect | .NET & Azure | AI-Native Engineering

Atlanta, GA

PROFESSIONAL SUMMARY

Principal Architect with 20+ years in .NET and Azure, most recently sole architect and developer at Syntriq Health, designing and building a four-system Azure claims-processing suite with application-level controls designed against HITRUST CSF and SOC 2 criteria. Deep specialization in regulated healthcare systems (Cigna, Clearwave, Syntriq), multi-tenant SaaS design, and event-driven Azure architecture. Daily practitioner of AI-assisted engineering with Claude Code and GitHub Copilot integrated into architecture, test authoring, and CI/CD. Microsoft Certified: Azure Administrator Associate (AZ-104). USMC veteran.

KEY ACHIEVEMENTS

Built a ‘spec-book’: a playbook (standing build rules) paired with a spec (business requirements) that directs Claude Code to build IaC, docs, and code for any feature, bug fix, or new project.

Efficiency: Stood up four systems on shared logic and centrally defined practices; three reached UAT within six weeks. Replaced overnight-batch ETL and client polling with event-triggered handoff, cutting coordination overhead and attack surface.

Maintainability: Packaged shared logic as small NuGet packages (C# 8 default interfaces) for backward/forward compatibility — fixes made once, adopted per project, no lockstep upgrades.

Force multiplication: Kept development focused on business need over stack mechanics: containerizing CMS.gov’s IPPS/OPPS Pricer needed no in-house Java or COBOL hire.

AI accountability: Tracked change requests and bug-fixes via wikis, change logs, and semantic versioning; 500+ unit/regression tests built alongside features. Flagged requirements gaps, troubleshot deployments, analyzed field bugs from recordings and logs.

Risk mitigation: Playbook matured on Workers’ Comp carried its hardening into Liability Claims, a structurally different app, proving the spec-book multi-solution, not single-app. Guardrails let business state specs in plain English; playbook enforced logging, error handling, and regression.

Security enforcement: Standing security policy: every identity defaults to managed identity at minimum role, secrets stay out of code, infrastructure is policy-checked IaC — repeated on every system, not caught in review.

IMPEDIMENT MITIGATION

Legacy modernization: Replaced a decades-old, fragile MS Access replication scheme with a modern sync layer — zero UI disruption — while repairing live data corruption in the master replica mid-transition.

Vendor containment: Contained a DTU-bloated, fragile CMS.gov data dependency through container isolation instead of full remediation; upgrade cadence moved from vendor-controlled to business-controlled, at lower cost.

Compliance risk: Recognized mounting compliance risk in an AI voice agent posing as a human adjuster, and replaced it with direct claim-status API integration.

Distributed delivery: Led a 7-person offshore/onshore data team to a 30% query and reporting-latency improvement across billion-record warehouses.

Cross-team adoption: Built a SQL performance-monitoring framework adopted org-wide across 5 teams, driving a 30% DB efficiency gain.

Stakeholder coordination: Coordinated 25 North American business units and their vendors onto one unified CMS platform.

Cost recovery: Redesigned a cross-team billing workflow, cutting costs 40% and maintenance load 20%.

Regulatory complexity: Isolated each jurisdiction’s payment rules into its own library for a single apples-to-apples output, cheap to extend to new states.

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EXPERIENCE

Principal Architect, promoted from Senior ASP.NET Developer (Apr 2026) | Syntriq Health
Sept 2025 – May 2026

4-system Azure claims suite under spec-book mandate; $7M+ estimated value (per CIO).

Cloud Architect | Just-In-Time Concept Pathfinders *Oct 2024 – Jul 2025*
High-volume webhook ingestion pipeline; introduced containerization practice from zero.

Solution Architect | Norfolk Southern *Apr 2023 – Jun 2024*
Modernized a decades-old legacy field-sync system with zero UI disruption.

Data Architect | Satcom Direct *Aug 2020 – Mar 2023*
Led a 7-person offshore/onshore data team; 30% query/latency gains on billion-record warehouses.

Senior .NET Workflow Foundation Engineer | Assurant *Feb 2020 – Jul 2020*
Coordinated policy-intake automation with business stakeholders during a COVID-compressed timeline.

Lead .NET Integration Engineer | Clearwave *Aug 2019 – Dec 2019*
Integrated third-party healthcare APIs (FHIR/HL7) with practice-management and EHR vendors.

Senior .NET / SQL Developer | Turner Broadcasting *Jan 2019 – Jul 2019*
Built a performance-monitoring framework adopted across 5 teams; 30% DB efficiency gain.

Lead Umbraco CMS Developer | ExamWorks *Oct 2017 – Jan 2019*
Coordinated 25 business units and their vendors onto one unified CMS platform.

Lead .NET WPF Engineer | Conduent *Jun 2013 – Sep 2017*
Mentored developers while modernizing legacy systems; +23% team productivity.

Senior .NET WCF / SQL Server Engineer | Cigna Healthcare *May 2012 – May 2013*
Redesigned a cross-team billing workflow; 40% cost savings, 20% lower maintenance.

EARLIER EXPERIENCE

Earlier roles (1998–2012): NationsBuilders Insurance Services (OLAP segment analysis, +15% revenue), Scout Applications (CRM systems), Cox Communications (e-commerce with Commerce Server/BizTalk), CAS Americas (Fortune 500 trade promotion), HOP Consulting (VB-to-VB.NET migration), Braincandi Solutions, Sagepath (auto-parts distributor platform, 1.5MM monthly page views, $1.2MM online revenue), Chasing Savings (co-founded SaaS for newspapers), ADP, RDA, Scientific Games (lottery reporting/inventory redesign, +25% auditing efficiency). Full detail available on request.

TECHNICAL SKILLS

Cloud & Infrastructure: Azure Container Apps, ACR, Azure Functions, Azure SQL, Key Vault, Managed Identity (SAMI)

Architecture & Resilience: SOLID Principles, Event-Driven Architecture, CQRS/Saga/Event Sourcing, Circuit Breaker

DevOps & IaC: Azure DevOps (Repos & Pipelines), Bicep/ARM, CI/CD, Docker, PowerShell

Languages & Frameworks: C#, .NET Core, TypeScript, Angular, REST APIs, EF Core

Compliance, Testing & AI Tooling: HITRUST/SOC 2, NUnit, NBomber, Claude Code, GitHub Copilot

EDUCATION & CERTIFICATIONS

Microsoft Certified: Azure Administrator Associate (AZ-104) • B.S., Telecommunications Management, DeVry Institute (3.8 GPA) • USMC (1991–1995)

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