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SOLUTION ARCHITECT & ENGINEERING LEAD | AI INTEGRATION & AUTOMATION | AZURE & ON-PREMISES PLATFORM ARCHITECTURE

Professional Summary

Solution architect and engineering lead with 14+ years building enterprise .NET and Azure platforms, currently owning end-to-end architecture for two flagship accounts — a NZ\$5B global logistics group on Azure and a \$5.4B-asset credit union on-premises. Decomposes monolithic systems into independently deployable services that decouple release cycles, and embeds AI and LLM capability directly into production platforms and engineering workflows, from content transformation at scale to AI-assisted code review in CI/CD. Has led engineering teams continuously since 2020, partnering with client IT and security organizations to deliver secure, maintainable systems across large-scale and regulated environments.

Key Achievements

- Own end-to-end architecture for enterprise platforms serving a NZ\$5B global logistics group (10,000+ staff across 27 countries) and a \$5.4B-asset financial institution serving 330,000+ members — spanning both Azure cloud and regulated on-premises environments.
- Embed AI/LLM capability into production engineering workflows and client platforms: designed LLM-driven content-transformation automation for a large-scale CMS migration, and built AI-assisted PR review into CI/CD alongside automated vulnerability scanning, reducing average exposure time.
- Lead engineering teams continuously since 2020 — a 5-person backend team plus an offshore React team at Caroogo, and agency delivery teams at BlueModus — balancing hands-on architecture and development with sprint leadership, mentorship, and delivery ownership.
- Define CI/CD architecture and Infrastructure as Code strategies using Azure DevOps and GitHub Actions, standardizing automated deployments and shortening release cycles while improving reliability across development and production environments.

Professional Experience

BlueModus Remote

Senior Solution Lead (AI Integration & Platform Architecture) 2023–Present

- Own architecture design and ongoing evolution for two flagship enterprise accounts — a NZ\$5B global logistics group (10,000+ staff, 27 countries, five public brands) on Azure, and a \$5.4B-asset credit union serving 330,000+ members on-premises — partnering with client IT for implementation and security teams for standards compliance.
- Decomposed a monolithic CMS platform by extracting site search into a standalone, load-balanced API — proposed, designed, and built end to end — decoupling release cycles to enable independent deployments, faster feature development, and simpler long-term maintenance.
- Replaced scheduled-task background processing with asynchronous Azure Function Apps, removing batch workloads from the CMS deployment cycle and improving scalability, isolation, and reliability.
- Architect a load-balanced on-premises platform on Windows Server, IIS, and SQL Server for a regulated financial institution serving 330,000+ members.
- Designed post-migration automation flows for a large Kentico 13 → Xperience by Kentico platform migration, layering LLM-driven content transformations on top of migrated content at scale.
- Automated GitHub workflows with AI-assisted (Copilot) PR reviews plus Dependabot and Checkov scans detecting vulnerabilities by severity, orchestrating mid-sprint fixes and coordinated releases, reducing average exposure time.
- Set architecture direction and engineering standards — architecture documentation, ADRs, code review practices, development guidelines — adopted by rotating agency delivery teams of five engineers and QA across both accounts.
- Lead client-facing architecture discovery and design, aligning technical solutions with business objectives across multi-year platform initiatives.
- Architect cloud security and identity: Entra ID integration, RBAC, and OAuth2/JWT authentication, working with client security teams to maintain standards compliance across enterprise platforms.
- Define CI/CD architecture using Azure DevOps pipelines enabling reliable automated deployments across development and production environments.
- Design modular .NET service architectures — caching layers, background processing, API services — holding page response times to a 200ms target across large-scale production environments.
- Contribute to an enterprise AI search-and-chat implementation built on Azure AI Foundry, integrating AI services into the client's platform architecture.

RDA	2022–2023
Senior Consultant — built an Amazon-style shopping experience into a production e-commerce platform (.NET, Knockout.js) Remote	
Caroogo.com	2020–2022
Development Lead Louisville, KY	
- Led a team of five backend developers and an offshore React team, coordinating priorities and removing blockers to maintain consistent delivery and meet sprint and project milestones. - Balanced 50% hands-on development with Scrum leadership, facilitating sprint planning, standups, and retrospectives while focusing on sprint deliverables. - Designed and implemented large-scale APIs spanning dozens of Azure services and third-party vendors, powering an end-to-end car buying wizard. - Designed and implemented CI/CD pipelines with Azure DevOps, standardizing infrastructure provisioning and integrating feature delivery for internal backend and offshore frontend teams. - Mentored developers on architecture principles, cloud development patterns, and secure coding practices, improving team proficiency and code quality.	
BlueModus	Remote
Senior Software Developer → Web Development Lead 2018–2020	
- Built and maintained CMS platforms at scale — RILA.org, ASBMB.org, CarboCeramics.com — serving hundreds of thousands of users on a shared proprietary codebase across clients. - Developed a PowerShell scaffolding library that reduced client onboarding overhead across new projects. - Designed a dynamic page caching framework delivering sub-200ms page loads at scale.	
Kindred	2017–2018
Senior Software Developer Louisville, KY	
- Refactored a proof of concept into a scalable architecture on Azure WebJobs and Queues, establishing a common logging architecture across services. - Implemented automated testing strategy with 1,200+ tests achieving 85% code coverage and significantly reducing production defects. - Provided technical mentorship to junior engineers and contributed to architectural improvements across the platform.	
Dealer Car Search	2017
Senior Software Developer Louisville, KY	
- Built and launched ListingALLCars.com, a .NET Core platform with Redis-backed distributed caching and an SEO-first architecture. - Migrated source control from SVN to Git on VSTS with automated build pipelines, and delivered companion Xamarin iOS/Android apps.	
Computer Services Inc.	2015–2017
Senior Developer / Team Lead Lexington, KY	
- Ensured secure, compliant development practices within banking systems, enforcing coding standards and internal controls to meet regulatory and audit requirements. - Led development team managing full SDLC across enterprise projects in a 100+ developer shared codebase powering a large-scale banking SaaS product, establishing agile practices and code quality standards to improve delivery consistency and software reliability.	
Veridocs, Inc.	2012–2015
.NET / ASP.NET Developer Lexington, KY	
Developed casino patron management and identification solutions using C#, SQL Server, and WPF for Fortune 500 clients, leveraging proprietary image processing to read IDs and enable fast, accurate customer processing.	

Technical Skills

Architecture & Strategy: Solution & Platform Architecture, Cloud and On-Premises Design, Security Architecture, Monolith Decomposition & Service Extraction, Architecture Decision Records (ADRs), Architecture Governance & Standards, Client-Facing Architecture Discovery, Event-Driven Architecture, CQRS, Domain-Driven Design, RESTful APIs, SOLID Principles, Scalability, High Availability

AI Engineering: LLM integration in .NET/Azure applications, Azure AI Foundry, AI-assisted development workflows (GitHub Copilot, agentic coding tools), LLM-driven content and process automation at scale, prompt design, AI-powered search and conversational chat design

Cloud & DevOps: Microsoft Azure (App Services, Functions, Azure SQL, Cosmos DB, Service Bus, Event Grid, Redis Cache, Key Vault, Entra ID / B2C), Azure DevOps, GitHub Actions, CI/CD Pipelines, ARM/Bicep Templates, Docker

On-Premises: Windows Server, IIS, load-balanced on-premises SQL Server hosting, enterprise platform delivery in regulated on-premises environments

Languages & Frameworks: C#, .NET Core/.NET 6/7/8, ASP.NET MVC, Entity Framework Core, Node.js, TypeScript, JavaScript, SignalR

Data: SQL Server, Cosmos DB, Redis, Dapper, Query Optimization, Database Design

Security: OAuth 2.0, JWT Authentication, Azure Entra ID, Identity Providers, Role-Based Access Control (RBAC), OWASP Security

Engineering Practices & Leadership: Team Leadership, Engineering Mentorship, Agile/Scrum, Code Review Practices, Unit & Integration Testing (xUnit, NUnit, MSTest), Git, Swagger/OpenAPI, Architecture & Technical Documentation

Frontend: Angular, React, Vue.js, responsive and progressive web application design

Education

University of Kentucky *Graduated May 2012*

Bachelor of Science in Computer Science, Minor in Mathematics

Certifications

Microsoft Certified: Azure Solutions Architect Expert (AZ-305) — *in progress, expected Q4 2026*

Microsoft Certified: Azure Developer Associate — *earned 2020, expired*

Microsoft Specialist: Programming in C#

Microsoft Certified Professional