

Ben Phillips

SOLUTIONS ARCHITECT · .NET · IT/OT INTEGRATION · SOUTHEAST USA

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SUMMARY

Full-stack software engineer with sixteen years building .NET software — desktop applications, services, and integrations for places where uptime matters more than novelty. Recent work spans solutions architecture, IT/OT integration, and production AI: an in-house LLM assistant and a set of MCP servers for safe LLM access to internal systems.

EXPERIENCE

Application Developer

2018 – Now

Tier-1 transaxle supplier (manufacturing)

Sole primary developer across a 25+ application portfolio. Drove source control, dev environment, and framework modernization from a 2018 .NET 3.5 starting point. Recent: solutions architecture, IT/OT integration, in-house LLM assistant and MCP servers. Certified ISO 9001:2015 internal QMS auditor.

Software Developer

2014 – 2018

Oldcastle Materials Group (now CRH)

Middleware applications, then the QuoteToCash Silverlight sales system, then telematics integration on MuleSoft with BA / PM / business owners. Promoted junior → mid-level.

IT Support & Junior .NET Developer

2010 – 2014

Sturgis Web Services

First professional .NET role. SSIS / ETL pipelines for county tax-payment data; direct work with county staff nationwide on data import.

SKILLS

Desktop: WinForms, WPF, Blazor Server, Electron, WebView2

Services & integration: C#, VB.NET, ASP.NET Core, SignalR, RabbitMQ, SQL Server, EF Core

AI & LLM: Ollama, Gemma, OpenWebUI, MCP, RAG, AD-gated access

Architecture: multi-tier systems, distributed monitoring, IT/OT bridge, profile-based delivery

Platform & libraries: Serilog, NuGet, .NET Standard 2.0, shared API contracts, PLC comms

Quality & process: ISO 9001:2015 internal QMS audit

SELECTED PROJECTS

Internal MCP Servers — MCP servers giving LLM clients auth-gated access to internal AD, databases, and files (C#, Active Directory).

Cervi — in-house RAG LLM assistant for service-ticket triage, deployed CPU-only (Ollama, Gemma, RAG).

Workstation Toolbar — workstation appbar rebuilt into a four-tier system across ~100 machines (.NET 8, React, SignalR).

QIA — shop-floor quality inspection app; 8 lines, ~900 units/day, 6 → 1 line-agnostic refactor (VB.NET, WinForms, PLC).

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