MARK J. HOGAN

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Software Architect

Strategic Architect and Technical Leader with over 20 years of experience designing scalable, resilient systems across industrial automation, enterprise SaaS, and healthcare domains. Proven record in architecting plant-wide control systems, custom installation engines, RESTful service integrations, and modernization of legacy infrastructure. Adept at guiding full lifecycle solutions, translating business needs into robust architecture, and mentoring engineering teams through cross-functional transformation initiatives—and continuing to do so for at least another decade.

Architectural Impact & Strategic Design Contributions

- **System Modernization & Scalable Design** Led redesign of healthcare platform into modular React & .NET Core architecture using Backend-for-Frontend (BFF) principles, layered caching, and decoupled services—establishing scalable technical foundation
- **Install Architecture & Data Inheritance Modeling** Engineered intelligent deployment frameworks using PowerShell and VBScript, coupled with hierarchical inheritance modeling for configuration propagation across dynamic environments
- **Release Stability via CI/CD Strategy** Defined and implemented automation pipelines with defect containment and QA orchestration to support zero-defect standards and sustainable delivery velocity
- **Monitoring Frameworks & API Optimization** Developed RESTful APIs and backend instrumentation for real-time system visibility, including performance-tuned data layers and telemetry-driven decision support
- **SCADA Legacy Influence & Recovery Logic** Early SCADA architecture (Aspentech CIM/21) informed current system resiliency approaches; ongoing operational leadership in OS and SCADA deployment with recovery-centric methods
- **Architectural Mentorship & Technical Governance** Provided guidance on scalable patterns, modernization tradeoffs, and long-term maintainability across engineering teams—bridging system strategy with delivery execution

Process Methodologies & System Design Paradigms

Agile (Scrum, SAFe) · CI/CD Automation · BFF Architecture Test-Driven Development (TDD) · Consumer-Driven Development (CDD) Scaled Collaboration · Program Increment (PI) Planning · Sprint Rituals Root Cause Analysis · Service-Oriented Architecture (SOA) · Legacy System Decoupling Zero-Defect Delivery Strategy · Strategic Refactoring Patterns

Technical Proficiencies

- **Architecture & Strategy:** Scalable Systems, Distributed Design, Backend-for-Frontend (BFF) Architecture, Caching Strategies, Consumer-Driven Development (CDD), Test-Driven Development (TDD)
- **Languages & Frameworks:** C#, VB, C++, ASP.NET, WPF, REST/SOAP, React, Blazor, Entity Framework
- **DevOps Tools:** Azure DevOps, Git (Git Flow), Jenkins, Visual Studio, xUnit, Jira, Confluence
- **Scripting & Automation:** VBScript, PowerShell, Windows Command-line (CMD), Python, Bash
- **Database & Data Operations:** SQL Server, T-SQL, Redis, ORM, Data Recovery, Log Archival, Historical Data Modeling
- **Cloud Familiarity & Deployment Context**: Basic deployment familiarity with Azure App Services, CI/CD pipelines, and GitHub-hosted static sites. Knowledge applied in personal and professional projects with intent to deepen platform fluency
- **Industry Domains:** Industrial Automation, Hospital Operations, Biomedical Asset Management

- **Leadership & Collaboration:** Technical Mentorship, Strategic Thinking, Engineering Culture Development, Cross-Functional Team Guidance, Communication, Delivery Reliability

Professional Experience

Senior Software Engineer | Engineering Manager Accruent – New Orleans, LA | *Sept 2018 – Dec 2024*

- Led modernization from monolithic WPF/SOAP systems to scalable React + .NET Core architecture with Backend-for-Frontend (BFF) strategy.
- Implemented Redis caching, RESTful APIs, and CDD principles to improve usability and reduce churn.
- Directed engineering teams through SAFe Agile sprints, CI/CD integration, and zero-defect releases.
- Conducted code reviews, refactoring, and xUnit-based automation; leveraged Copilot AI for optimization.

Sr. Computer Systems Analyst General Dynamics IT – New Orleans, LA | *Feb 2016 – Jun 2018*

- Automated CI/CD pipelines using C#, Python, Jenkins, and Groovy.
- Delivered custom analytics tools integrated with TFS APIs for reporting and time tracking.

Principal Partner | Lead Developer System Management Technologies – New Orleans, LA | *Mar 1999 – Feb 2016*

- Developed enterprise-scale deployment and monitoring tools under IT Works platform.
- Architected hierarchical data inheritance and unattended install solutions.
- Built integrated Helpdesk, configuration utilities, and telemetry pipelines.

IT Coordinator | Lead Developer Texaco Inc. – Wilmington, CA | *Jan 1997 – Mar 1999*

- Created Texaco's Managed Desktop Solution, reducing deployment cycles by 80%.
- Integrated Distributed Control System (DCS) using Aspentech CIM/21 across plant operations.

Education

- **B.S. in Mathematics** – Nicholls State University – Thibodaux, LA
- **B.S. in Computer Science** – Nicholls State University – Thibodaux, LA

Websites & Projects

- **LinkedIn Profile:** https://linkedin.com/in/MarkHoganInLa - Professional portfolio showcasing career achievements, technical leadership, and strategic intent for continued impact
- **GitHub Portfolio:** https://github.com/KrazKjn - Repository of real-world projects, architectural samples, and deployment utilities across .NET, scripting, and automation
- **Blazor Personal Website:** https://krazkjn.github.io/my-personal-blazor-website - Component-based SPA built with .NET Blazor and WebAssembly, leveraging Razor UI structure and client-side rendering
- **React Personal Website:** https://krazkjn.github.io/my-personal-react-website - Interactive single-page application using React, React Router, and SPA routing patterns via GitHub Pages deployment

Committed to shaping scalable architecture while empowering engineers to build confidently and think long-term.