Zeke Naulty

.NET Solution Architect / Technical Architect

.NET Solution Architect – Modernizing Long-Lived Systems (C#, ASP.NET, SQL Server/PostgreSQL, Azure DevOps)

Summary

Solution-focused architect who designs pragmatic modernization paths for long-lived .NET systems. Balances legacy constraints with improved patterns, data contracts, and team practices.

Mentors teams on testing, service boundaries, and delivery so products become easier to evolve instead of harder to maintain.

Experience

Software Engineer II (Architecture & Services) - Storable
Jan 2021 - Dec 2022 | Cary, North Carolina, United States
   - Architected and delivered .NET Core services with Hangfire, PostgreSQL, and SQL Server for insurance auto-protect features alongside WinForms and web apps.
   - Introduced unit testing patterns and contributed to domain-driven design to make shipping safer on a legacy-heavy product.
Tech: C#, .NET Core, WinForms, ASP.NET, Entity Framework, Hangfire, PostgreSQL, SQL Server, Unit testing, Domain-driven design

Lead Developer / Azure DevOps - iAdvantage Software, Inc.
Feb 2017 - Jan 2021 | Cary, NC
   - Led delivery of user-defined data models and reporting for GLP-compliant products across WebForms/MVC/WebAPI with REST OData and SOAP APIs on Oracle.
   - Guided DevOps practices and UI strategy with CSS, Bootstrap, AngularJS, and offline WinForms/Xamarin support.
Tech: C#, ASP.NET WebForms, ASP.NET MVC, ASP.NET WebAPI, REST, OData, SOAP, Oracle, PL/SQL, Entity Framework, nHibernate, AngularJS, Bootstrap, CSS, WinForms, Xamarin Forms, Azure DevOps, GLP compliance, Reporting

Application Developer / Architect - Solid Earth Inc.
Dec 2006 - Jan 2011 | Huntsville, AL
   - Maintained RETS client/server software and configurable ASP.NET MLS implementations powered by Oracle and C#.
   - Built a market analytics and statistics module to surface actionable metrics.
Tech: C#, ASP.NET, Oracle, RETS, XML configuration, Performance tuning, Analytics, Reporting

Senior Software Developer - Rural Sourcing, Inc.
Jul 2013 - Feb 2016 | Augusta, Georgia Area
   - Mentored teams, managed projects, and recruited across Microsoft stack engagements.
   - Provided leadership on Windows, web, and database development initiatives.
Tech: C#, ASP.NET, WinForms, SQL Server, Project management, Mentoring, Code review, Estimation

Programmer/Analyst - Prestage Farms
Jan 2016 - Sep 2016 | Clinton, NC
   - Directed modernization of VB6 accounting and inventory systems, replacing reporting and adding custom bug tracking.
   - Used Agile practices to deliver early and leave a maintainable path forward.
Tech: C#, VB6, VB.NET, WinForms, Reporting, PDF generation, JIRA, Agile, Team leadership, Role-based security

Web Developer/Consultant (PK Promotions) - PK Promotions
May 2004 - Jan 2005 | Biloxi, MS

- Implemented production management, product tracking, and sales/marketing systems with web technology tailored to business constraints.
Tech: ASP, SQL Server, Web development, Requirements gathering, Reporting

Engineering Application Developer - Litton Avondale Inc.
Feb 1999 - Dec 2000 | New Orleans, LA
- Created 3D-to-2D code transformations and deployment tooling with error logging/reporting on the LPD-17 project.
- Built an IDE for scripting the transforms to make future changes safer.
Tech: 3D to 2D transformations, Scripting IDE, Error logging, Deployment, Engineering tooling

Skills
Core
- C#
- .NET Core
- ASP.NET
- Entity Framework
- Azure DevOps
- SQL Server
- Oracle
- Legacy modernization
- Leadership
- Project management

Supporting
- PostgreSQL
- WinForms
- AngularJS
- OData/SOAP APIs
- Mentoring
- Unified Modeling Language (UML)

Other
- Agile Methodologies
- Bootstrap
- Cloud Platforms
- Cloud computing (Azure)
- CSS
- Database Development
- Full-stack development
- Git
- iOS
- JavaScript
- JIRA
- Kanban
- Microsoft Azure
- Microsoft SQL Server
- Mobile application development
- Problem-solving
- Regular Expressions
- Software development
- Team Building
- Team management
- Time management
- Visual Basic .NET
- Web development
- Hangfire
- Xamarin Forms

Projects

Cognition

A .NET-based agentic orchestration system that wraps LLMs with tools, background workers, and structured pipelines for planning and execution. Focuses on durable workflows, message/state tracking, and clear separation between model calls and application logic.

https://github.com/zekenaulty/cognition

Resume & Profile Site

A GitHub Pages site that renders multi-profile resume views from structured JSON data, including a default 'Code Monkey' profile and employer-focused variants for backend, desktop, fullstack, and architect roles.

https://github.com/zekenaulty/zekenaulty.github.io

Dominus

A DOM utility library that builds Bootstrap 5 and Bootswatch interfaces from code, aiming to reduce raw HTML boilerplate and make UI construction more declarative and composable.

https://github.com/zekenaulty/dominus

Random Dialog Engine

A lightweight dialog engine for games and narrative systems that models conversations and internal monologue using reusable dialog primitives and simple stateful flows.

https://github.com/zekenaulty/random-dialog

Maze-Battle & Maze-Quest

A pair of JavaScript experiments combining maze traversal with RPG-style encounters: Maze-Quest focuses on Minecraft-inspired maze exploration, while Maze-Battle extends the idea with combat and encounter logic.

https://github.com/zekenaulty/maze-battle

Fractal & Geometry Experiments

A series of visual experiments centered on cube-based generative structures (cubix-gen) alongside Cantor sets and binary tree fractals, exploring recursion, geometry, and visual pattern generation in HTML/JavaScript.

https://github.com/zekenaulty/cubix-gen

SQL Server Information Schema Tools

A C# utility library for querying and shaping SQL Server information schema metadata, designed to support reporting, refactors, and schema-aware tooling.

https://github.com/zekenaulty/SqlServer.InformationSchema-Discontinued

English Lexicon & NLP Data Experiments

Fork-based experiments around large English word datasets and CEFR-level annotations, exploring ways to combine frequency, part-of-speech, and difficulty metadata for NLP and language-learning tools.

https://github.com/zekenaulty/Words-CEFR-Dataset