Zeke Naulty

Senior .NET Backend / Modernization

Senior .NET Backend Engineer – Legacy to Modern Backends (C#, .NET Core, SQL Server/ PostgreSQL, Azure)

Summary

Senior .NET engineer focused on backend services, data flows, and modernization. Comfortable moving legacy workloads toward testable .NET Core/C# services, tightening telemetry, and improving reliability around schedulers, queues, and APIs.

Works close to the database layer (SQL Server, PostgreSQL, Oracle) and cares about shipping incremental improvements without breaking the business.

Experience

Software Engineer II (Backend/Modernization) - Storable

Jan 2021 - Dec 2022 | Cary, North Carolina, United States

- Built and maintained .NET Core services with Hangfire, PostgreSQL, and SQL Server to support insurance auto-protect features.
- Kept WinForms and web applications moving by tightening unit test coverage and contributing to early domain-driven design efforts.

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

- Delivered user-defined data models and custom reporting for GLP-compliant products using WebForms/MVC/ WebAPI with REST OData and SOAP APIs on Oracle.
- Led service delivery and DevOps practices across .NET, nHibernate, Entity Framework, and PL/SQL.

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

Senior Software Developer - Rural Sourcing, Inc.

Jul 2013 - Feb 2016 | Augusta, Georgia Area

- Delivered Microsoft-stack projects for multiple clients, moving between WinForms, ASP.NET, and SQL Server work as engagements required.
- Mentored junior and mid-level developers on coding standards, testing habits, and practical estimation.
- Planned and tracked sprints, risks, and milestones while keeping stakeholders aligned across simultaneous projects.
- Conducted code reviews and production readiness checks to keep releases predictable for consulting clients.
- Interviewed and recruited engineers, helping shape hiring rubrics and onboarding practices.
- Acted as a hands-on contributor when teams needed extra capacity on backend or desktop features.

Tech: C#, ASP.NET, WinForms, SQL Server, Project management, Mentoring, Code review, Estimation

Application Developer / Architect - Solid Earth Inc.

Dec 2006 - Jan 2011 | Huntsville, AL

- Maintained RETS client/server software on Oracle and C# and modernized configurable ASP.NET MLS implementations.
- Built a statistics module with deep market analytics and reporting.

Tech: C#, ASP.NET, Oracle, RETS, XML configuration, Performance tuning, Analytics, Reporting

Programmer/Analyst (Modernization) - Prestage Farms

Jan 2016 - Sep 2016 | Clinton, NC

- Led modernization of legacy VB6 accounting and inventory software, replacing reports and delivering a new

reporting frontend.
    - Added bug reporting and ticketing to tighten feedback loops; delivered the project ahead of schedule with Agile practices.
Tech: C#, VB6, VB.NET, WinForms, Reporting, PDF generation, JIRA, Agile, Team leadership, Role-based security

Programmer/Analyst - Not Rocket Science
Jan 2005 - Oct 2005 | Covington, LA
    - Delivered full-stack .NET work on SQL Server for Zen-Noh Grain and built ActionScript + ASP.NET tracking for shipments and tug boats.
    - Built a C# mobile app for a Sheriff's department.
Tech: C#, ASP.NET, ActionScript, SQL Server, Mobile development, Inventory/operations workflows, Client consulting

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

Skills

Core
- C#
- .NET Core
- ASP.NET
- Entity Framework
- SQL Server
- PostgreSQL
- Azure DevOps
- Hangfire
- Legacy modernization

Supporting
- WinForms
- AngularJS
- Oracle
- OData/SOAP APIs
- Project management

Other
- Agile Methodologies
- Bootstrap
- Cloud Platforms
- Cloud computing (Azure)
- CSS
- Database Development
- Full-stack development
- Git
- iOS
- JavaScript
- JIRA
- Kanban
- Leadership
- Mentoring
- Microsoft Azure
- Microsoft SQL Server
- Mobile application development
- Problem-solving
- Regular Expressions

- Software development
- Team Building
- Team management
- Time management
- Unified Modeling Language (UML)
- Visual Basic .NET
- Web development
- 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