# Zeke Naulty

## Senior WinForms / Desktop .NET Developer

Senior WinForms / Desktop .NET Developer – Modernizing LOB Apps (C#, WinForms, VB6/VB.NET, SQL Server)

## Summary

Thick-client specialist with deep experience in WinForms and desktop line-of-business apps. Modernizes legacy UI flows, introduces sustainable testing patterns, and connects desktop clients to dependable services.

Comfortable straddling older tech (VB6/WinForms/Web Forms) and newer patterns to keep critical desktop products alive while improving maintainability.

## Experience

### Software Engineer II (WinForms/Desktop) - Storable
Jan 2021 - Dec 2022 | Cary, North Carolina, United States
  - Maintained and extended .NET WinForms applications alongside web properties for insurance products.
  - Introduced unit testing patterns to WinForms and kept desktop and service layers in sync during domain-driven design adoption.
Tech: C#, .NET Core, WinForms, ASP.NET, Entity Framework, Hangfire, PostgreSQL, SQL Server, Unit testing, Domain-driven design

### Programmer/Analyst (Desktop Modernization) - Prestage Farms
Jan 2016 - Sep 2016 | Clinton, NC
  - Led a team modernizing VB6 accounting and inventory software, replacing legacy reporting and PDF generation.
  - Added custom bug reporting and ticketing to keep desktop work visible and delivered the project early using Agile practices.
Tech: C#, VB6, VB.NET, WinForms, Reporting, PDF generation, JIRA, Agile, Team leadership, Role-based security

### Lead Developer / Azure DevOps - iAdvantage Software, Inc.
Feb 2017 - Jan 2021 | Cary, NC
  - Supported offline WinForms and Xamarin apps while delivering user-defined data models and reporting in WebForms/MVC/WebAPI on Oracle.
  - Crafted responsive UIs with CSS, Bootstrap, and AngularJS.
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

### Web Developer/Consultant (PK Promotions) - PK Promotions
May 2004 - Jan 2005 | Biloxi, MS
  - Built web-based commodity production management and product tracking systems that paired with desktop

workflows.
    - Supported sales and marketing systems for the business.
Tech: ASP, SQL Server, Web development, Requirements gathering, Reporting

### Design Consultant - Rainmaker Advertising & Design
Mar 2001 - Oct 2002 | Biloxi, MS
    - Developed front-ends and components in VB6, VB.NET, and ASP (Classic/Web Forms) with Access, InterDev, Flash, and SQL Server.
    - Assisted in IT system design for agency clients.
Tech: VB6, VB.NET, ASP Classic, ASP.NET Web Forms, Microsoft Access, SQL Server, InterDev, Frontend components

### Programmer/Analyst I - Hancock Bank
Dec 2000 - Aug 2001 | Gulfport, MS
    - Built desktop applications against DB2/Argo Data, adding reporting and data-access front-ends.
    - Created data-driven ASP pages and validation JavaScript to support desktop workflows.
Tech: Access, DB2, Argo Data, ASP, JavaScript, SQL Server, Reporting, Data access

### Technician/Programmer - Computer Specialist
Feb 1999 - Mar 2000 | Bay St. Louis, MS
    - Troubleshot and resolved software issues for local customers on Windows 3.1 through Windows 2000.
    - Repaired and built IBM-compatible PCs, installing and configuring operating systems and peripherals.
    - Created small custom applications for small businesses to automate routine tasks.
    - Handled on-site support, translating user needs into practical fixes and documenting steps for non-technical staff.
Tech: Windows support, PC hardware, Troubleshooting, Custom applications, Customer service


## Skills
**Core**
    - WinForms
    - C#
    - ASP.NET
    - .NET Core
    - SQL Server
    - Legacy modernization
    - Visual Basic .NET

**Supporting**
    - Bootstrap
    - AngularJS
    - Azure DevOps
    - Hangfire
    - Project management

**Other**
    - Agile Methodologies
    - 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
- Oracle
- Problem-solving
- Regular Expressions
- Software development
- Team Building
- Team management
- Time management
- Unified Modeling Language (UML)
- Web development
- Entity Framework
- PostgreSQL
- Xamarin Forms
- OData/SOAP APIs

## 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