

# Zeke Naulty

## Code Monkey (Default)

Senior .NET Engineer / Code Monkey for Messy Systems (C#, .NET Core, WinForms, ASP.NET)

## Summary

Most of my career has been spent inside complex systems: long-lived .NET codebases, awkward architectures, and business processes that grew faster than anyone designed them. The more tangled the problem, the clearer the map becomes.

I take responsibility for hard systems other people depend on, learn how they really work, and make them easier to change. That has meant living deep in C#, .NET Core, WinForms, ASP.NET, SQL Server, and PostgreSQL—untangling apps and nudging teams toward testable, maintainable designs.

Systems are not neutral; they decide who carries risk and who fights fires. I prefer building things that reduce hidden load and failure modes instead of chasing whatever is trending.

Outside of work it is quieter - cooking, biking, games, and reading - but the same habit shows up: notice patterns, refine systems, and leave them better than I found them.

## Experience

### Software Engineer II - Storable

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

- Dropped into WinForms plus .NET Core services, kept the insurance backend running with Hangfire, PostgreSQL, SQL Server, and Entity Framework.
  - Showed the team how to unit test WinForms and nudged early domain-driven design so changes stop breaking everything.
- 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

- Ran user-defined data models and reporting for GLP products across WebForms/MVC/WebAPI with REST OData and SOAP APIs on Oracle.
  - Kept UIs and DevOps sane with CSS/Bootstrap/AngularJS plus offline WinForms and Xamarin apps.
- 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 sites on Oracle and C#.
  - Built the market analytics module so people could stop guessing about the data.
- Tech: C#, ASP.NET, Oracle, RETS, XML configuration, Performance tuning, Analytics, Reporting

### Programmer/Analyst - Prestage Farms

Jan 2016 - Sep 2016 | Clinton, NC

- Modernized VB6 accounting/inventory systems, rebuilt reporting, and added bug tracking so issues stopped disappearing.
  - Delivered early with lightweight Agile habits.
- Tech: C#, VB6, VB.NET, WinForms, Reporting, PDF generation, JIRA, Agile, Team leadership, Role-based security

### Senior Software Developer - Rural Sourcing, Inc.

Jul 2013 - Feb 2016 | Augusta, Georgia Area

- Mentored teams and juggled projects across the Microsoft stack while recruiting and interviewing.
- Kept delivery moving on Windows, web, and database work.

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

### **Programmer/Analyst - Not Rocket Science**

Jan 2005 - Oct 2005 | Covington, LA

- Built a C# mobile app for a Sheriff's department and shipped full-stack .NET + SQL Server work for Zen-Noh Grain.

- Stitched together an ActionScript + ASP.NET tracking app for shipments and tug boats.

Tech: C#, ASP.NET, ActionScript, SQL Server, Mobile development, Inventory/operations workflows, Client consulting

### **Web Developer/Consultant (PK Promotions) - PK Promotions**

May 2004 - Jan 2005 | Biloxi, MS

- Delivered production management, product tracking, and sales/marketing systems for a small shop.

Tech: ASP, SQL Server, Web development, Requirements gathering, Reporting

### **Design Consultant - Rainmaker Advertising & Design**

Mar 2001 - Oct 2002 | Biloxi, MS

- Built front-ends in VB6/VB.NET/ASP with Access, InterDev, Flash, and SQL Server; helped design IT systems for 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 apps on DB2/Argo Data with reporting UIs, data-driven ASP pages, and validation JavaScript.

- Designed SQL Server applications to support the workflows.

Tech: Access, DB2, Argo Data, ASP, JavaScript, SQL Server, Reporting, Data access

### **Engineering Application Developer - Litton Avondale Inc.**

Feb 1999 - Dec 2000 | New Orleans, LA

- Wrote 3D-to-2D transforms, deployed network applications, and built error logging/reporting on the LPD-17 project.

- Built an IDE so those transforms could be scripted instead of rewritten.

Tech: 3D to 2D transformations, Scripting IDE, Error logging, Deployment, Engineering tooling

### **Technician/Programmer - Computer Specialist**

Feb 1999 - Mar 2000 | Bay St. Louis, MS

- Fixed and built PCs, troubleshoot software, and wrote custom tools for small businesses.

Tech: Windows support, PC hardware, Troubleshooting, Custom applications, Customer service

## **Skills**

### **Core**

- C#
- .NET Core
- WinForms
- ASP.NET
- SQL Server
- PostgreSQL
- Legacy modernization

### **Supporting**

- AngularJS
- Azure DevOps
- Hangfire
- JavaScript
- Problem-solving

### **Other**

- Agile Methodologies
- Bootstrap
- Cloud Platforms
- Cloud computing (Azure)
- CSS
- Database Development
- Full-stack development
- Git
- iOS
- JIRA
- Kanban
- Leadership
- Mentoring
- Microsoft Azure
- Microsoft SQL Server
- Mobile application development
- Oracle
- Project management
- Regular Expressions
- Software development
- Team Building
- Team management
- Time management
- Unified Modeling Language (UML)
- Visual Basic .NET
- Web development
- Entity Framework
- 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>