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David Kilday

- Work Experience**
- Mar. 2018/Current Vortext Analytics Knoxville, TN
Senior Applications Developer
- Created the database schema for our denial management product.
 - Created Angular code that allowed denial management forms to be customizable by the user.
 - Created code to allow pdf forms to be edited inside the Angular app.
 - Redesigned security to use claims for roles, privileges, etc.
 - Created an authorization system for the data science team, so their reports could be authenticated by our website using tokens.
- Sep. 2015/Mar. 2018 Clayton Homes Maryville, TN
Senior Applications Developer
- Created Web APIs and WCF Services for the external web application used by independent retailers.
 - Maintained and created Angular code for the application.
 - Dramatically improved stability and security upon arrival at Clayton.
 - Implemented an Authentication system using JWT Tokens and ADFS.
 - Started a code review process using pull requests in Bitbucket.
 - Started a bi-weekly meeting to improve coding skills on our team, starting with mobile development using Xamarin.
 - Took an active role in mentoring junior developers.
- Sep. 2013/Sep. 2015 Cellular Sales Knoxville, TN
Applications Developer
- Performed 90% of all bug fixes to the point of sale website.
 - Used MVC to create new functionality and to rewrite Classic ASP pages.
 - Researched the point of sale website for security vulnerabilities.
 - Presented my findings to the Software Engineering team including a demonstration of the vulnerabilities, and an action plan to fix them.
- Dec. 2012/Sep 2013 ACT Technologies Johnson City, TN
Reports Developer
- Created and maintained the vb.net and C# code used in report creation.
 - Created and maintained Oracle stored procedures.
- Aug. 2011/Current EZ Assessment TN
Small Business Owner / Manager
- Developed SAAS product that allows teachers to make any multiple-choice test into an online assessment.
 - Written using Vue.js, Web APIs, and a SQL Server database.
 - Previously written in ASP.net MVC (C#).
 - Over 150,000 tests have been submitted through the site.

Skills

Programming Skills

- .NET Framework, .NET Core
- Web API, WCF, ASP.net MVC, Classic ASP
- Angular, TypeScript, Vue.js, JavaScript, HTML, CSS
- WPF, WinForms, Xamarin
- SQL Server, Oracle, MySQL, Postgres

Web Security Skills

- Have demonstrated attacks and taught protections for vulnerabilities such as:
 - SQL Injection
 - Cross-Site Scripting (XSS)
 - Cross Site Request Forgery (CSRF)
 - Broken Access Control
 - Session Hijacking
 - Dictionary Attacks

Education

1995/1999: 2002/2004 University of Tennessee Knoxville, TN

- B.S., Business Management.
- Master of Science, Teacher Education.
- Mathematics Degree Equivalent.

Programming

Portfolio

A sample of my personal projects. See www.davidkilday.com for more details and demos.

Mp3 Jukebox

- [Mp3 Jukebox](#) is an mp3 player with both a WPF and an AngularJS application.
- The AngularJS web application communicates with the WPF app through use of a Web API and SignalR, allowing users to control the player remotely.
- The player can also play in “radio” mode, automatically selecting tracks based on past user interactions.

Budget App

- My Budget App is a Windows and Android application that I use for tracking expenses and verifying transactions on my bank statement.
- The windows application is written in WPF (C#) using an MVVM pattern.
- The android app was written using Xamarin and is used to record transactions, then sync up with the main WPF app.

Mental Math

- [Mental Math](#) is a multiplayer game where math students practice arithmetic, while their car races across the screen.
- Written in WPF (C#) using an MVVM pattern.
- Allows up to 8 students to compete across a network.

Sudoku Solver

- My [Sudoku Solver](#) will quickly solve any sudoku puzzle including those designed for computer algorithms.
- Written in ASP.net MVC (C#) with Ajax and JavaScript.