READ THIS FIRST: I have TWO areas of professional interest. From the Web development side, it's Blazor. From the mobile/desktop side it's .NET MAUI (formerly known as Xamarin.Forms). That's it. Any contact about other technologies is a waste of my (and your) time and thus will not be acted upon and immediately deleted.

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Summary

I have been involved in Microsoft software development since 2008, with the overwhelming majority of my time spent in desktop and mobile app development.

Between 2008 and 2014 I worked for a small software development company in Lancaster, Pennsylvania, where I developed a map-based desktop emergency responder preplanning application using Windows Forms, C#, SQL Server Express 2008, and ThinkGeo's MapSuite.

In 2016 I began concentrating on developing Universal Windows Platform (UWP) apps for Windows 10 devices. My UWP experience lead to a position working on the development of a home construction tool, followed by contract positions rewriting a teledentistry app for UWP and developing an app for a water system research project. By this time the lack of UWP adoption lead me to other technologies.

After following the progress of Blazor for some time I began to familiarize myself with it and developed a series of demo apps. This lead to my current position of reengineering a Windows Forms app to Blazor WASM, using Telerik UI components and Web API to access an Oracle database.

I am also interested in working more with mobile app development, having done some Xamarin.Forms demo projects and currently looking to take that background to .NET MAUI now that it is a released product.

Recent Professionally-Used Technical Skills

Blazor: Used continually since 2021
C#: Used continually since 2009
Git / GitHub: Used frequently since 2018
MVVM: Used 2017 - 2020
Oracle: Used since mid-2021
SQLite: Used from 2015 - 2020
Telerik UI for Blazor: Used since mid-2021
Universal Windows Platform (UWP): Used 2015 - 2020
Visual Studio: Used continually since 2008
XAML: Used continually since 2015

Relavent Training in Last 12 Months

June 5, 2022: Completed Microsoft's *"Build mobile and desktop apps with .NET MAUI".*

Past Technical Skills (from earlier positions)

ADO.NET
DevComponent DotNetBar
.NET Framework
SQL Server 2008 Express
ThinkGeo MapSuite
Windows Forms (WinForms)
Windows Store Apps

Demo Web Sites

Xamarin.Forms: xf.allenhuber.com
Windows Forms: wf.allenhuber.com
Windows Presentation Foundation: wpf.allenhuber.com

Blazor Demos

Meet the Provinces (https://green-ocean-050c2810f.azurestaticapps.net) is a basic Blazor Wasm demo. Published to **Azure Static Web Apps** on January 27, 2021.

Continental Breakfast (https://zealous-stone-0934eef0f.azurestaticapps.net) retrieves its data from an **Azure Functions** API and implements master-detail drilldown and other types of navigation. Published to Azure on January 30, 2021.

Pantry Picker (https://delightful-coast-077c5f20f.azurestaticapps.net) extends an Azure

Function API to actually persist the app data in an **Azure SQL database**. Published to Azure on February 24, 2021.

Employee Examiner (https://gentle-sea-04c79950f.azurestaticapps.net/) is a dashboard demo with multiple levels of linking. Published to **Azure Static Web Apps** on March 31, 2021.

Alpha Analyzer (https://delightful-beach-010f0660f.azurestaticapps.net) was written to demonstrate the use of a third-party Blazor UI library, **MudBlazor**. Approximately 20 items from this library were used. Published to **Azure Static Web Apps** on April 7, 2021.

Euro Pop (https://calm-ocean-0038d810f.azurestaticapps.net) demonstrates the use of five types of charts from the **Radzen** Blazor component library to visualize population or demographic data on European countries. Published to **Azure Static Web Apps** on April 20, 2021.

Sport Scheduler (https://gentle-sand-0604ba90f.azurestaticapps.net) is a prototype app for scheduling sport playing times. It uses **Azure Static Web Apps**, **Azure SQL Database**, and **Azure Functions** as well as the **MudBlazor** UI library. Published on May 1, 2021.

Professional Experience

Holman, Mount Laurel, NJ (July 2021 -)

Contract .NET Developer with Mondo (Philadelphia, PA)

- Developed Windows Forms/Oracle preventitive maintenance reporting functionality.
- Conversion of existing Windows Forms app to Blazor WASM, using Web API to provide access to an Oracle database. Also using Telerik UI for Blazor.

University of California Davis Center for Water-Energy Efficiency, Davis, CA (December 2019 – August 2020)

Contract UI Developer with Bay Systems Consultants (Palo Alto, CA)

Developed UWP app as part of CWEE research project on use of machine learning and real-time data to improve performance of water systems.

StudioLabs, Buffalo, NY (Full work week from December 2018 – December 2019; as-needed through May 2020)

Contract Developer with New York Technology Partners (Rochester, NY)

Developer on small team that rewrote the existing Windows 8.1 MouthWatch TeleDent as a UWP app. App is a cloud-synced SQLite database-driven app using an MVVM approach.

- Coded Tasks and Appointments pages and parts of Patient page
- Applied consistent app-wide styling
- Performed all coding after depature of other UWP developer

D.R. Horton, Arlington, TX (March 2017 - April 2018)

Software Developer (contract to hire position, Apex Systems)

Developer on SuperSuite UWP (Windows 10) app team, a UWP app driven by a SQLite database using an MVVM approach.

- Added date/range filtering to various functions
- Implemented query models (data access layers) to eliminate duplicate data-loading code
- Implemented new detail grouping functionality
- Added adaptive logic to allow app to work properly on tablets, phones, etc.
- Added “Event Not Confirmed By Vendor” dashboard and detail
- Converted all database operations from SQLite DLL to Microsoft’s
- Added Documents section

Comprehensive Custom Software, LLC, Lancaster PA (2014 – 2017)

Owner/Developer

Owner/developer of company that offered software development to small businesses with a concentration on the newer .NET Core-based Microsoft technologies, eventually focusing on Universal Windows Platform (UWP) development for Windows 10 devices..

- Using XAML, C#, and SQLite to develop UWP applications for various devices.
- Developed a series of UWP technology demos.

The Rawlings Group, La Grange KY (September 2015 - February 2016)

Software Developer

- Developed scripts for SQL Server databases to perform various maintenance tasks.
- Enhanced Silverlight and AngularJS applications.
- Used TFS to track work items and share code; participated in daily scrum, weekly backlog grooming, and biweekly retrospective meetings.

UPS, Timonium, MD (February - March 2015)

Consultant at UPS with Alliance Sourcing Network, Lyndhurst, NJ

Made modifications to C# Windows Forms software

Iron Compass Map Company, Lancaster, PA (May 2008 – December 2014)

Software Engineer

As the sole developer, I worked with many types of technologies at various intensities.

C# Desktop Software - Windows Forms (WinForms)

- Completed development of **OnScene Xplorer 2.6**, which was released in 2008. Implemented several new high-level functions, such as day/night interface toggling and integration with incident feeds. Continued to maintain code until replacement product development (described below) began.
- Researched, prototyped, developed, and maintained **OnScene Xplorer 3.0**, a complete rewrite of the existing product, which was released in 2011. The rewrite, switching from Visual Basic to C#, implemented newer technologies, such as replacing shapefiles and Access databases with SQL Server Express 2008 R2 for spatial and user data storage, and moving from ESRI's MapObjects to ThinkGeo's MapSuite for map rendering. New functionality included items such as on-line software registration and updating, departmental vehicle tracking via ASP.NET Web Services, several data update methods such as downloading SQL scripts (generated via Change Tracking and Change Data Capture) from an Iron Compass FTP server, the implementation of user-requested searches for mile markers and apartment complexes, a closest fire hydrant measurement tool, integration with ThinkGeo's routing product, and user-customizable map styling.
- Developed numerous utility programs used in conjunction with OnScene Xplorer 3.0, such as a shapefile to SQL Server converter, a styling editor, and a program that builds SQL Server BCP files and SQL update scripts for distribution of mapping data updates to customers via FTP.

Web Applications - ASP.Net WebForms

- Application that tracked customer contact, product purchases, and billing information
- Configuration application for IronAT Web API
- Configuration application for online software registration Web API

Web Applications - MVC

- Application used for documenting the source, usage restrictions, and edits of mapping data

ASP.NET Web APIs (original "ASMX" Web Services ONLY)

- Online software registration which validated registration codes and enforced license purchase counts
- IronAT, which was used to submit vehicle position information to a server for visualization within OnScene Xplorer
- Maintenance Web API to allow software outside of OnScene Xplorer to perform hydrant maintenance

DLL Development

- Developed approximately 30 customized DLLs used for parsing emergency dispatch text; these DLLs accepted a variety of inputs, such as e-mails with a variety of text formats, CAD API call results, local CAD databases, and XML documents which were used by OnScene Xplorer to display dispatch information to the user and plot the location on the map.

Other Activities

Visual Studio extensions

Building and publishing extensions for Microsoft's Visual Studio:

- **Unicode Inserter**: Tool window extension that allows the user to insert a symbol's Unicode value into a C# source file. (137 installs)
- **Subword Selection**: Identical in functionality to VS Code extension: selects a portion of a word based on surrounding capitals, punctuation, whitespace, etc. (21 installs)

Visual Studio Code extensions

Building and publishing extensions for Microsoft's Visual Studio Code:

- **entity-insert:** Uses an Emmet-like approach to convert a short code to a named entity or Unicode character (955 downloads)

- **quote-flipper:** Toggles surrounding text quotes between single and double quotes (3,402 downloads)
- **subword-select:** Selects the subword section of a word located at the cursor position (310 downloads)

https://marketplace.visualstudio.com/search?term=allenshuber&target=VSCode&category=All%20categories&sortBy=Relevance

Education

The Pennsylvania State University - Univeristy Park, PA

Bachelor of Science in Geography (GIS option)

Montgomery County Community College - Blue Bell, PA

Associate of Applied Science Degree in Mid-Range Systems