
Summary

Graham is a highly skilled software engineer with over 30+ years of experience specializing in Microsoft technologies, including web, automation and data applications and processes.

Skill Highlights

- **Primary Skills** Solutions Architect, Application Development, Database Development, Software Development, Object Oriented Programming, Cloud based Development, Change Management, Agile, SCRUM
- **Industries** Information Technology, Software Technology, Banking/Finance, Real Estate, ISO/QS 9002 Manufacturing
- **Programming Languages** C#.Net, All versions of .Net, CSS, HTML5, JavaScript, JSON, VB.Net, XML, TypeScript, Angular JS
- **Web Technologies** ASP.net, Net Core, MVC.net, Angular JS, React, Signal IR, Material UI, Node.js, Bootstrap 4/5, jQuery, jQuery-UI, jQuery Validation, Entity Framework, Newtonsoft, LESS, LINQ, Web Services, AJAX, Charting, Graphing, Reporting, Online Payments, REST, SOAP, WCF, API, SharePoint, Power Apps/BI/Automate, Umbraco CMS
- **Data Technologies** Azure SQL Server, Microsoft SQL Server 2000 to 2022, Stored Procedures, SQL Functions, SQL Reporting/Charting/BIDS, SQL Express
- **Software Technologies** Visual Studio 2022, VSCode, Team Foundation Server/Dev-ops, SSME, Visio, Access, PowerPoint, Word, Excel
- **Cloud Technologies** Azure, AWS
- **Desktop Technologies** All Windows Operating Systems including MS-DOS

Professional Experience

zBest Data Technologies, LLC(DBA TOPS Consulting), (Various Clients), Durham, NC
Owner/Developer/Microsoft Partner – January 2007 to Present

North Carolina Department of Agriculture

Modern and Legacy support / development (Feb 2025 – Present)

- Developed interfaces for data exchange between the Department of Agriculture and US Food and Drug Administration(FDA)
- REST API and user interface to lookup businesses in the FDA's Database
- **Legacy SOAP** interface and submission form to submit inspection results to the FDA.
- **Standards Division:** New online form for submitting Notification of a Broken LP Gas Seal
- Technologies used: **SOAP, .Net 4.8, C#, REST API, XML, JSON, ASP.Net, Data Modeling, JQuery, Bootstrap, file uploads**

RENT.com / REDFIN

Automated Feed Processing(20008 – May 2025-Acquired by Zillow)

- Since 2008, I have been a partner in maintaining and converting data feeds in xml and JSON to market to customers via their website.
- Technologies used: **Angular, TypeScript, Angular UI, Node.js, .Net 8, C#, REST API, XML, JSON, MVC, Entity Framework, SQL Server 2022, Windows Service, IIS**

Victory Healthcare Communications, LLC

Web Development and Support(May 2023-Present)

- Victory Healthcare Communications provides services for *"deconstructing complex medical information, transforming it into clear, actionable insights, and delivering creative communication solutions for payers, HCPs, and patients"*
- Technologies used: **.Net 8, C#, REST API, XML, JSON, MVC, Entity Framework, SQL Server 2022, Windows Service, IIS**

Swyvv.com, Olympia, WA

Independent Contractor – June 2024 to October 2024

- Swyvv.com is a new platform with a national footprint that was launched in September to connect home buyers/sellers with agents and mortgage lenders.
- Guided the customer through the process of obtaining listing data from multiple mls listing providers
- Developed automated process to retrieve mls listings via REST API's from data providers and maintain/update data in Azure SQL Server
- Developed API's to feed listings to Swyvv's Website that is built on Web Flow
- Coached, advised and assisted Swyvv's Jr Web Flow developer

- Technologies used: .Net 8, C#, REST API, XML, JSON, MVC, Entity Framework, Azure SQL Server, Windows Service, IIS

GF Health Products, Inc

Umbraco 9 website

- Working with the team at Graham-Field, we have created a modern new corporate website to replace their old one <https://grahamfield.com/>
- Requirements included integration with company's internal systems for searching and displaying products, services and documents.
- Technologies used: HTML 5, Bootstrap 5, jQuery, JavaScript, MVC, Net 4.8, C#, Entity Framework, SQL Server, Umbraco CMS.

zBest Property Manager™ Real Estate Platform(multiple clients)

Real Estate Websites built on Umbraco and SQL Server

- Handles import for many MLS API formats including RETS, FLEXMLS, reDataVault, MATRIX, Property Information Network, Bridge MLS, MLS Grid, Stellar MLS, and Realogy.
- Photos optimized and stored on Azure CDN
- Umbraco CMS provides front end for Real Estate Clients.
- Technologies used include MVC.Net, LINQ, Entity Framework, jQuery, JavaScript, Newtonsoft, and Less.

XML Syndication Feed Conversion and Processing(multiple clients)

- Automated service in ASP.NET/C#.NET transferring Real Estate listings each night directly from brokers database to vertical marketing sites such as Zillow, Trulia, RentPath.
- Data was exported via XML file from brokers website then converted and delivered to syndicates in required xml format(RETS/Zillow/Truila)
- Technologies used include MVC.Net, LINQ, Entity Framework, Newtonsoft, IIS, Windows Server Services

ERA Key Realty Services

- Assisted in streamlining and automating several of their back-office functions for reporting, data updates, data transfers from various MLS Data sources.
- Data was exported via XML file from brokers website then converted and delivered to syndicates in required xml format(RETS/Zillow/Truila)
- Technologies used include MVC.Net, .Net Core, LINQ, Entity Framework, Newtonsoft, XML, JSON, and C#

Marathon Consulting, LLC, (Various Clients), Virginia Beach, VA

Senior Information Technology Consultant – September 2022 to August 2023

Curbside Laundries

- Worked with team to provide support and upgrades to business platform
- Made the application mobile friendly for use inside stores and by delivery drivers on their phones or tablets.
- Developed barcoding functionality to automate and improve process flow of inventory and assets.
- Technologies used: HTML 5, Bootstrap 5, jQuery, JavaScript, MVC.Net 4.8, C#, Entity Framework, SQL Server, React, Signal IR.

TAPCO Underwriting / BB&T, Burlington, NC

Programmer – December 2008 to April 2010

- TAPSYS - **C#.NET WinForms** Application that completely automated the process of issuing and underwriting insurances quotes, beginning with the initial call from the customer to the ongoing management of issued contracts and payments.
- As part of a team, coded, supported, and developed new processes to support the business process.
- Responsible for creating and maintaining weekly HTML Flyers for promoting and expanding sales.

Lehigh Hanson, Morrisville, NC

Software Architect and Programmer – January 2006 to July 2008

Environmental HARP Database

- **ASP.NET / C#.NET Application** used to assist us in meeting OSHA Air Quality Requirements for our employees. Originally created by a 3rd party company, it was assigned to me for correction and cleanup when they were not able to complete the tasks.
- Fixed, supported, and developed new processes to support the ongoing business process.

Employee Appraisal and Merit System

- **An ASP.net / VB.NET Web Application** that is used by all the managers in North America to perform their annual reviews and appraisals.
- Maintained and managed data integration with JD Edwards Software.
- Provided ongoing support to all management staff until all performance reviews were completed.

Navigator (Employee Pensions and Retirement Benefits system)

- **Classic ASP Web Application** that is used by or Pension and Benefits Depart to manage payments and distribution of all employee pensions and benefits, including those who are retired or deceased.
- Incorporated several upgrades including implementation of new benefits calculations corrections to SQL Stored Procedures.

Navigator Data Feed

- Navigator was a supplemental system to the information stored in JD Edwards
Managed and maintained the system with regular updates to keep the 2 systems in Sync.

TimeCentre Time Clocks

- Managed Card and time entries received from approximately 250 plants across the United States who used them to record the hours an employee has worked. These entries were used for payroll processing.
- Troubleshooted problems of lost punches and disconnects to make sure entries were in for processing
- Created a **VB.NET Windows Service** to prevent lost connections, locked applications, and further loss of employee punches.

Robert Half Technologies, Raleigh, NC

Contractor and Programmer – June 2005 to January 2006

- Contractor assigned to Hanson North America.
- Diagnosed and resolved problems with lost punches from their Time Clocks across the US.
- Created **VB.Net WinForm** Applications to proactively monitor and prevent further issues.
- Hired full-time in January 2006.

First Citizens Bank, Raleigh, NC

Programmer – February 1998 to July 2004

Y2K Conversion

- A huge undertaking for all banks, my primary job was to assist in recoding multiple applications and reports to accommodate the new 4-digit year.

Computer Telephony Integration (CTI) – VB6 WinForm Application

- Used by the Banking's Customer Telephone Staff, this application supplied customer account information directly from the Hogan Mainframe.
- Member of development team and provided ongoing support, fixes, and enhancements to the system.
- Added integrated MS Office forms for automatic prefill and creation of legal documents such as new accounts, money transfers, credit card application, and loan applications.
- Added functionality to perform direct transfers via Western Union.

Automated Car Loan Application System

- Developed **VB 6 WinForm Application** to interface with the mainframe and prefill the customer's info, retrieve credit score, and approve or deny a loan based upon the bank's criteria.

Loan Exception Reporting

- Partly for auditing purposes, the bank is required to maintain records of liens and exceptions on the loans that it has. These were reported by a series of Crystal and MS Access reports.
- Created new reports and required by the internal customer.
- Corrected problems or calculations found in existing reports.
- As part of my cross training, I spent 3 months working with the Data Warehousing Team.

Education

Bachelor of Science in Physics and Chemistry, Minor in Math, Longwood University, Farmville, VA