**GEORGE MCBATH**

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**Location:** Houston, TX **| Interview Availability:** 1-2 Days **| Start Availability:** Immediate

My C# Core 5 REST API back end sample code: [**https://github.com/gmcbath/WideWorldImportersWebApi**](https://github.com/gmcbath/WideWorldImportersWebApi)

Test live API (using Postman script available on GitHub) at: **http://api.DotNetRestApi.com/Swagger/Index.html**

**SUMMARY**

* Strong .NET Developer with 15 years of experience using C#, VB.NET, .NET Core 5 and .NET Framework, SQL, REST API, Windows Services, EDI, and ETL in energy, real estate, health care, and retail POS (point of sale) sectors.
* Able to communicate technical concepts to non-technical audiences via practical proposals, reports, written communication, and oral presentations.
* Strong customer and partner focus in providing technology services and support.
* Complete Software Development Life Cycle (SDLC) experience, including requirements gathering, system analysis and design, data modeling, application creation, unit-testing, quality assurance, documentation, and production support of the finished product.
* Effective problem solving and analytical skills displaying attention to detail.
* Maintain and enforce best practices for full-stack software development including security, error handling and recovery, timely notification messages, and the creation of accurate audit logs to assist production support efforts.
* Own issues with a sense of urgency and consistently make recommendations to improve product performance.
* Able to confer with teams to resolve conflicts and respond effectively in an environment with rapidly changing and competing priorities.
* Experienced with SOX compliance procedures related to software enhancements, deployments, and production support.
* Desire to be part of a learning culture, where teamwork and collaboration are encouraged and accountability is expected.
* Ability to exercise sound judgement and make decisions in a manner consistent with the essential job functions.

**TECHNOLOGY**

**Skills**

* C# Core 5
* VB.NET
* Framework and Core 5
* Entity Framework Core 5
* ADO.NET
* ODBC
* TSQL
* REST API
* ASP.NET MVC
* Web Forms
* WinForms
* Windows Services
* Web Services
* EDI and ETL
* JSON
* XML and XSD
* Agile/Scrum – Backlogs, Stories, Poker Planning, Sprints, Kanban
* Sox Compliance Activities

**Tools**

* Visual Studio 2019
* TFS
* VSTS
* GitHub
* NDepend
* EF Profiler
* NCrunch
* ReSharper
* PVCS
* Boomi
* SharePoint
* Teams
* Zoom
* Clear-Quest
* ServiceNow

**Database**

* Data Modeling with Erwin
* SQL Server
* Postgres
* MySQL
* SQLite

**EXPERIENCE**

**Boardwalk Pipeline Partners (contract) Houston, TX July 2019 to April 2021**

Senior .NET Developer – C#, VB.NET, Web Forms, WinForms, Windows Services, SQL Server 2016, EDI

Natural Gas Pipeline Software Development

* Developed, maintained, and provided production support for Visual Basic .NET natural gas software related to nominations, scheduling, EDI transactions, measurements, allocations, invoicing and billing, and informational postings.
* Created C# integration program between legacy and replacement system that called a REST API and updated a SQL Server database.
* Created, supported, and tuned SQL Server stored procedures that interfaced with line-of-business applications.
* Built ETL components using Dell Boomi to process EDI files.
* Created 25 XSD schemas based on NAESB X12 specifications.
* Wrote Production Data Modification (PDM) TSQL scripts to update development, QA, and production databases.
* Performed SOX compliant DevOp tasks to migrate software between development, QA, and production environments.
* Provided production support for Quorum Pipeline Transaction Management (QPTM) natural gas line-of-business application.

Results:

* Contributed to a system-wide enhancement named Enhanced Parking Service, which provided rate schedules that allowed customers more control over the storage and release of natural gas. Included changes to nominations, scheduling, EDI, measurements, allocations, invoicing and billing modules.
* Contributed to configuration and launch of Dell Boomi ETL system used for processing EDI XML files.

**Direct Energy (contract) Houston, TX Nov 2018 to May 2019**

Senior .NET Developer – C#, VB.NET, WinForms, Windows Services, SQL Server 2016

ETRM Asset Management Agreements Database

* Contributed to project building ETRM infrastructure to manage complex Asset Management Agreements (AMA) with custom software instead of spreadsheets.
* Created grid with “Excel-like” UX so energy traders could write formulas for pricing natural gas using NYMEX Index, Premium, ACA, Commodity, Fuel, Fixed Rate, Cap and Floor variables.
* Managed 450+ pipelines that automatically synchronized rate schedules with receipt and delivery location drop-down controls each time a new pipeline was selected.
* Able to update natural gas prices in real-time by calling a C# WCF service and passing formulas the traders created with current market conditions.
* Developed SQL Server batch job to automatically update future prices based on real-time market conditions.

Results:

* Created line-of-business application to manage Asset Management Agreement formulas which traders used to track and analyze energy prices.
* Developed batch job that ran automatically to update future based on real-time market conditions.

**Harris Health System (contract) Houston, TX April 2018 to Sept 2018**

Senior .NET Developer – C#, VB.NET, SQL Server, WinForms, SCCM, WFS, MDT, WMI

Microsoft Desktop Patching Software Integration Project

* Wrote major enhancements for award-winning VB.NET WinForms application (ZTI) that integrated three Microsoft network administrator tools, System Center Configuration Manager (SCCM), Windows Deployment Services (WFS), and Microsoft Deployment Toolkit (MDT), and allowed HHS to manage over 9000 Windows 7, 8, and 10 desktops and laptops in 3 hospitals and numerous clinics using minimal support staff.
* Worked with WMI to perform calls across the network to determine software and hardware configurations to build images for a new machine or make changes such as Active Directory group or registry changes remotely.
* Performed forensic analysis of SQL Server 2012 database which exposed duplicate records, orphan data, and missing indexes and foreign key constraints.
* Wrote over 40 TSQL scripts to enforce referential integrity, add missing indexes to improve performance, and perform routine database backup and data cleansing tasks.
* Created a C# program that retained all existing duplicate data by creating composite PK’s and deleted invalid data so TSQL constraints could be applied.
* Created a C# program that allowed the support team to manage lookup tables for drop-down controls.
* Wrapped existing ADO.NET database API in TransactionScope objects to ensure all changes over single or multiple tables were committed or rolled back as a single unit-of-work to prevent database corruption.
* Created a new database API using C# and Entity Framework v6.2 to increase development productivity.
* Programmatically created Excel Software Asset Manager (SAM) report that tracked the software packages installed on each computer for license compliance purposes.
* Sent email to SAM Officer each time PC Techs added or removed programs from a computer.
* Used Agile methods to deliver one or more updates weekly.

Results:

* Provided seamless integration of the Microsoft network product suite by adding new features, eliminating existing bugs, deleted duplicate, bad, and orphan data from the database, and added SQL Server data referential constraints to ensure a robust database foundation.

**DB Marketing LLP St. Louis, MO Nov 2015 to Mar 2018**

Senior .NET Developer – C#, SQL Server 2016, ASP.NET MVC 5, Web API 2, ASP.NET Identity, WinForms, Windows Services

Sales and Inventory Database

* Wrote project plans, functional program specifications, and developed software solutions to interface with multiple customers EDI data files that contained sales, inventory, and marketing information.
* Created ASP.NET MVC 5 UX to administer the data warehouse.
* Designed and programmed Web API v2.2 REST interface to allow customer integration with the data warehouse.
* Implemented ASP.NET Identity services to provide authentication and authorization security functionality.
* Developed and maintained C# WinForms applications that supported data warehouse operations.
* Performed EDI and ETL related activities to profile, cleanse, and load data into SQL Server 2016 data warehouse for analysis and reporting purposes.
* Wrote C# Windows Services internet crawler that screen-scraped keywords for analytical purposes such as website traffic flow.
* Supervised QA and user acceptance testing.

Results:

* Delivered cost-effective applications which assimilated information from multiple data sources for daily operational, reporting, and decision-making use cases.
* Created website UX and desktop line-of-business application to manage a data warehouse.
* Created REST API for 3rd party integration purposes.

**Stewart Title Guaranty Company Houston, TX Jan 2005 to Oct 2015**

Senior .NET Developer – C#, VB.NET, ASP.NET WebForms, WinForms, Windows Services, SQL Server

Bank Wire Project - 2012 to 2015

* Development lead for a team tasked with designing and building a C# ETL engine that processed bank wire transfers:
* Consulted with sponsors, stakeholders, and SMEs to gather business requirements and prioritize schedule for delivering new features and product functionality.
* Created work breakdown structure documents to estimate complexity and cost associated with the requirements document.
* Created data model and wrote supporting documentation such as entity relationship diagrams, business process flows, and installation procedures.
* Designed custom C# ETL engine that scaled out by launching additional processes while keeping existing production servers online.
* Programmed C# Windows Service backend and WinForms front-end ETL engine, which increased daily processing capacity by 65% each business day using a combination of C#, XML, and XSD technologies.

Results:

* On boarded banks 45% faster by implementing a new QA staff sign-off procedure that required integration testing using production EDI files from each new bank.

Senior .NET Developer – C#, WinForms, Windows Services, SQL Server

ERP Project for Lawson / Solomon / MS Dynamics – 2009 to 2012

* Managed development team tasked with gathering and transmitting financial transactions from field offices to the data center each night and creating and delivering Excel reports to leadership:
* Developed project charter including stakeholder identification, project scope with milestones, assumptions, constraints, initial risk assessment, and estimated costs.
* Programmed C# Windows Service backend with C# WinForms front-end to gather financial transactions each night from 250+ field offices, create and transmit EDI files using FTP to the data center, imported data into Lawson, Solomon, and MS Dynamics ERP systems.
* Wrote a C# program that created Excel detail and summary reports and interfaced with Microsoft Exchange for report distribution.
* Monitored project milestones and critical dates to identify and communicate risks and mitigation plans to stakeholders, sponsors, users, and IT management.
* Created a custom report writer using Excel and C# Windows Service which processed any valid SQL statement and produced Excel spreadsheets, bypassing the need for expensive vendor-specific reporting programs. The program included full report scheduling, queue automation, and report delivery capabilities.

Results:

* Automated system saved Stewart Title $2M annually:
* $7 per transaction @ 70K transactions annually = $500K annual savings
* Eliminated 20 data entry clerk positions @ 75K annually = $1.5M annual savings
* Increased accuracy of financial reporting.

Developer and Positions on Other Projects - 2005 to 2012

* Participated as project manager, team leader, liaison between business and technical areas, requirements analyst, systems analyst and designer, data modeling expert, or lead programmer in all phases of the software development lifecycle (SDLC) for dozens of custom Stewart Title solutions using C#, VB.NET, ASP.NET Web Forms, WinForms, Windows Services, and VBA technologies.

**EDUCATION**

**Bachelor of Science in Business Information Systems** - University of Houston Downtown