

## GEORGE MCBATH

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

My C# Core 6 REST API backend sample code: <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, and SQL Server in health care, insurance, energy, defense, real estate, and point of sale sectors.
- Experienced with .NET Core 6 in microservices environments using middleware and REST API backend technologies.
- Effectively present technical designs to software engineering, program management, and other team members.
- Implement requirements into software components and applications according to technical design.
- Unit and component test software components and applications to ensure quality of deliverables.
- Track and report status of tasks, deliverables, and issues to software engineering team.
- Effectively manage multiple task assignments.
- Strong customer and partner focus in providing technology services and support.
- Practical problem solving and analytical skills displaying attention to detail.
- Ability to exercise sound judgment and make decisions consistent with best practices associated with essential job functions.
- 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 that encourages teamwork and collaboration.
- Perform other appropriate duties as requested, directed, or assigned with a positive, professional attitude.

### TECHNOLOGY

#### Skills

- |                      |                           |  |
|----------------------|---------------------------|--|
| • C# Core 6          | • Microservices           | • Postman  |
| • Stored Procedures  | • REST API                | • SAFe Agile Certified   |
| • TSQL               | • Entity Framework Core 6 | • Agile/Scrum – Backlogs, Stories, Poker Planning, Sprints, Kanban |
| • xUnit & FakeItEasy | • Docker                  |  |
| • ASP.NET MVC        | • OData                   |  |
| • ASP.NET Web API    | • Dapper                  | • Sox Compliance Activities  |

#### Tools

- |                      |                    |              |
|----------------------|--------------------|--------------|
| • Visual Studio 2022 | • JIRA             | • SonarCube  |
| • Azure DevOps       | • Confluence       | • ServiceNow |
| • GitLab DevOps      | • RedHat OpenShift |              |

#### Database

- |                      |          |            |
|----------------------|----------|------------|
| • SQL Server         | • MySQL  | • Postgres |
| • Azure SQL Database | • SQLite |            |

## **EXPERIENCE**

**Lockheed Martin Corporation (contract - remote)**

**Cape Canaveral, FL**

**April 2022 to August 2022**

Senior .NET Developer – C# Core 6, ASP.NET Web API Core 6, Entity Framework Core 6, Microservices, MySQL, Docker

### Warehouse Inventory Management Software

- Lead backend developer for microservice based microservice architecture used to manage warehouse inventory.
- Created backend API to track warehouse inventory using C#, MySQL, and OData.
- Wrote unit and integration tests using Entity Framework Core 6 with MySQL and Pomelo provider, and Microsoft InMemory databases.
- Collaborated with lead architect to design Entity Framework Core 6 Code First data models for microservice architecture.
- Participated in product design meeting.
- Performed MySQL DBA work locally using Docker containers before migrating changes to network based OpenShift platform.
- Managed database pods on RedHat OpenShift Kubernetes platform using Helm charts.

### Results:

- Produced cost-effective enterprise inventory control software on microservices platform that replaced legacy based Excel spreadsheet system.

**Evolent Health (contract - remote)**

**Chicago, IL**

**July 2021 to March 2022**

Senior .NET Developer – C#, ASP.NET MVC and Web API, Microservices, REST API, Azure SQL Database, SQL Server 2019

### Medical Claims Billing Software

- Designed schemas, scripts, and stored procedures for microservices based on an Azure SQL Server database that tracked patient information to produce Eligibility of Benefit (EOB) documents related to the government-mandated No Surprises Act of 2022, with a mandatory go-live of January 01, 2022.
- Managed schemas using Visual Studio SSDT database projects.
- Created TSQL MERGE scripts to load seeds values into database tables.
- Contributed to Trial Adjudication microservices that estimated medical procedure costs by executing claim adjudication rules, and then rolled back the database transactions. This strategy allowed Evolent Health to program and maintain a single set of C# and TSQL script business rules that served two purposes, production claims adjudication and calculating estimated medical procedure cost.
- Responsible for creating confidential, HIPPA compliant JSON data file exports containing patient and medical procedure information used to merge, print, and deliver EOB letters to patients.

### Results:

- Creation of Azure SQL Server database to store patient information.
- Call 3<sup>rd</sup> party letter printing service using REST API to merge data files and monitor printing and delivery of EOB letters to patients.
- Wrote C# code to update database audit tables with the status of each patients' letter for customer support purposes.
- Wrote programs to interface a claims payment systems with claims adjudication and accumulator microservices using REST API.
- Perform research and fix bugs on OLTP medical claim processing system using C#, SQL Server, TSQL, and stored procedures using Dapper.

**Boardwalk Pipeline Partners (contract - remote) 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 related 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 created 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 ETRM project with software infrastructure to manage complex Asset Management Agreements (AMA) with custom software instead of spreadsheets.
- Created Excel 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, 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 PKs 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 technicians added or removed programs from a computer.
- Used Agile sprints to deliver one or more updates weekly.

**Results:**

- Provided seamless integration of the Microsoft network product suite by adding new features, eliminating existing bugs, deleting duplicate records and orphan data from the database, and adding 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 schedules 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 other processes while keeping existing production servers online.
- Programmed C# Windows Service backend and WinForms frontend ETL engine, which increased daily processing capacity by 65% each business day using a combination of C#, XML, and XSD technologies.

**Results:**

- Onboarded 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 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**