

Ryan McHenry

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Summary

Microsoft-certified .NET software engineer with a passion and drive for delivering high-quality, user friendly web and client applications to improve, standardize and streamline business processes. Persistent in writing clean, structured and reusable code. Expertise in building database-driven and process automation application business solutions. Diverse experience with numerous technologies and PC/server hardware/software setup, configuration and troubleshooting. Knowledgeable in using Visual Studio, Team Foundation Server, Windows server and client, Photoshop, IIS, SQL Server and MySQL database tools for Windows and web application development and support. Strong ability in devising creative solutions to ambiguous or complex business problems.

Systems Experience

Technologies: LAN Internetworking, Router Based Networks, Web Hosting, Web Services, JQuery, Active Directory, LINQ, WPF, WCF, Silverlight, Hyper-V, Microsoft Access Database Engine 2010

Programming Design Patterns: MVC, MVVM

Languages: VB.Net, C#, ASP.Net, ASP, PHP, CSS, DHTML, HTML/xHTML, JavaScript, VB Script, T-SQL, MySQL, XML/XPath/XSL/XSLT, Regular Expressions

Development Tools: Visual Studio 2005-2010, Dreamweaver MX, Adobe Photoshop 7-CS4, Microsoft Access, MySQL, SQL Server 2005-2008 R2, SQL Server Integration Services (SSIS), SQL Server Reporting Services (SSRS), Visual SourceSafe 6.0-2005, Visual Studio Team Foundation 2008-2010, Expression Studio 4

Business Skills

Verbal and written communication, teamwork, knowledge of business functions, SDLC concepts, analytical, self-starter, detail-oriented, interpersonal, technical/computer, problem solving, ability to learn and adapt quickly

Professional Experience

Microsoft (Full-Time) – Finance Solution Delivery

Software Development Engineer 2

1/10 – Present

- Developed end-to-end web and windows client application solutions to standardize and streamline business processes.
- Involved in all aspects of the application life cycle, from design to build, testing and debugging, and deployment and maintenance.
- Designed both UI and underlying database for the applications using C#, Windows Forms, WPF, ASP.Net and SQL Server.
- Designed, coded, tested and delivered several small tools or additions to existing applications to satisfy a need where a gap exists in the business process.
- Built and maintain several SQL Server Reporting Services reports for the business customer.
- Enhanced Revenue Dispute application to include metrics reports and a scorecard. Also modified Excel configuration points to use a third-party pure .Net Excel library.

- Programmed complex SQL queries, stored procedures and functions to support Windows and web applications
- Utilized XML as a data transport method to transmit object data between the application UI and the database. Experience using SQL XML capabilities to generate XML to output object XML to the UI and parse XML input to the database. Reduction of processing time and consolidation of stored procedures.
- Updated Communication Mailer application to use Exchange Web Service managed API.
- Refined dynamic modular application framework using .Net 4.0, LINQ, reflection and late binding.
- Performed multiple application and underlying database releases to the customer for web and Windows client (Win Forms & WPF) applications.
- Utilized regular expressions for client/server-side data validation, text searching and replacement and text parsing.
- Coded simple Silverlight 4 slideshow for use on internal business SharePoint 2010 site. Uses SharePoint list RSS feed for images and corresponding URL to navigate to when image is clicked. Completely configurable without need of recompiling.
- Managed security permissions and minor modifications to business SharePoint 2010 site.
- Wrote a small .Net library to recursively search the Active Directory forest for a person or group and return the details of the entity if found.
- Prototyped a new Web (MVC)/SQL Server/Excel based application as a replacement for the Win Forms version of PlanTrax. Web UI is used for selecting export criteria and exporting/importing Excel files. JQuery and AJAX is used for filtering and selecting data to export. Prebuilt Excel templates using dynamic named ranges are populated and imported using SQL Server/Microsoft ACE 14 Driver via a dynamic OpenRowSet procedure. Export/import functionality works within a fiscal year as well as for rolling over data to another fiscal year. Import validation is handled in SQL with any error description returned to the user through the populated Excel template where the errors can be corrected and imported again.
- Environment: ASP.Net 3.5/4.0, ASP.Net Web Services, SQL Server 2008 R2, T-SQL, C#, VB.Net, LINQ, XML/XPath, JavaScript, JQuery, CSS, IIS, Windows Server 2008 R2, Visual Studio, Microsoft Office, Reporting Services, Integration Services, Active Directory, WPF, WCF, Silverlight, SharePoint 2010, ASP.Net MVC 3, AJAX, Microsoft ACE 14 Driver

**Microsoft (Full-Time) – Finance Solution Delivery
Software Development Engineer 1
2/09 – 1/10**

- Developed end-to-end web and windows client application solutions to standardize and streamline business processes.
- Involved in all aspects of the application life cycle, from design to build, testing and debugging, and deployment and maintenance.
- Designed both UI and underlying database for the applications using VB.Net/C#, Windows Forms, WPF, ASP.Net and SQL Server.
- Managed the flow of revenue and personnel data, intermediary processing of the data from upstream enterprise systems (MS Sales, FeedStore) and loading the transformed data to the world wide compensation tool (xCAT).
- Built SSIS packages to pull and transform data from one system to another (ETL).
- Built and maintain several SQL Server Reporting Services reports for the business customer.
- Wrote SQL procedures to transform data into a reportable format to produce reports from business systems for the business.

- Rewrote Revenue Dispute application to enhance and update the UI and log, track and resolve international revenue disputes more effectively. Includes supporting documentation upload, central application configuration with Excel download/upload for configuration data and email notifications.
- Programmed complex SQL queries, stored procedures and functions to support Windows and web applications
- Utilized XML as a data transport method to transmit object data between the application UI and the database. Experience using SQL XML capabilities to generate XML to output object XML to the UI and parse XML input to the database. Reduction of processing time and consolidation of stored procedures.
- Created an innovative solution using SQL XML to allow use of an XML object to be used universally for retrieving, saving, archiving and rollback of the object to a prior state.
- Constructed a web application (C#/ASP.Net/ASP.Net AJAX) interfacing with Microsoft Exchange Web Services to allow for the configuration and sending of bulk email messages. Validates aliases against Active Directory. Sends messages asynchronously server-side with the use of Web Services and multi-threading. Replaced an existing process that took days to process over 10,000 emails and reduced the processing time to less than 3 hours.
- Employed LINQ-To-SQL in a web application to manage and override employee data consumed by the downstream compensation system.
- Built a tool to query Active Directory for personnel or security/distribution group information.
- Developed a Windows gadget using xHTML, JavaScript and JQuery to bring compensation system status and open issues from SharePoint RSS feeds directly to the user's desktop providing instant access and the up-to-date information via automated refresh.
- Conceptualized and coded a dynamic modular application framework using .Net reflection and late binding.
- Performed multiple application and underlying database releases to the customer for web and Windows client (Win Forms & WPF) applications.
- Utilized regular expressions for client/server-side data validation, text searching and replacement and text parsing.
- Environment: ASP.Net 3.5, ASP.Net Web Services, SQL Server 2008, T-SQL, C#, VB.Net, LINQ, XML/XPath, JavaScript, JQuery, CSS, IIS, Windows Server 2008, Visual Studio, Microsoft Office, Reporting Services, Integration Services, Active Directory, WPF

Microsoft (Full-Time) – Worldwide Incentive Operations

Data Analyst

5/06 – 2/09

- Developed end-to-end web and windows client application solutions to standardize and streamline business processes.
- Involved in all aspects of the application life cycle, from design to build, testing and debugging, and deployment and maintenance.
- Designed both UI and underlying database for the applications using VB.Net/C#, Windows Forms, ASP.Net and SQL Server.
- Managed the flow of revenue and personnel data, intermediary processing of the data from upstream enterprise systems (MS Sales, FeedStore) and loading the transformed data to the world wide compensation tool (xCAT).
- Built SSIS packages to pull and transform data from one system to another (ETL).
- Wrote SQL procedures to transform data into a reportable format to produce reports from business systems for the business.
- Programmed complex SQL queries, stored procedures and functions to support Windows and web applications

- Utilized XML as a data transport method to transmit object data between the application UI and the database. Experience using SQL XML capabilities to generate XML to output object XML to the UI and parse XML input to the database. Reduction of processing time and consolidation of stored procedures.
- Created an innovative solution using SQL XML to allow use of an XML object to be used universally for retrieving, saving, archiving and rollback of the object to a prior state.
- Reverse engineered, built a configuration interface and wrote a custom Windows service to automate a compensation system process which reduced the process completion duration from over 160 man hours per iteration to less than 5 hours per iteration.
- Performed multiple application and underlying database releases to the customer for web and Windows client (Win Forms) applications.
- Developed a .NET component using the Microsoft Excel COM Interop to enable report automation capability to Win Forms application.
- Multi-threaded exporting of long running reports in Win Forms application.
- Utilized regular expressions for client/server-side data validation, text searching and replacement and text parsing.
- Environment: ASP.Net 2.0, ASP.Net Web Services, SQL Server 2005/2008, T-SQL, C#, VB.Net, LINQ, XML/XPath, JavaScript, CSS, IIS, Windows Server 2003/2008, Visual Studio, Microsoft Office, Reporting Services, Integration Services, Active Directory

Volt

Application Developer at Microsoft

9/05 – 5/06

- Constructed a Windows application for the Plan Design group to manage taxonomy planning and configuration for the downstream worldwide compensation tool
- Created stored procedures and functions for data access, conversion and synchronization
- Utilized SQL Server Integration Services for bulk data import to application
- Rebuilt the World Wide Incentive Compensation Revenue Allocation website using ASP.Net 2.0 and SQL Server 2005
- Queried Active Directory using Visual Basic.Net to lookup employee information
- Developed SQL stored procedures and data conversion SQL queries for the Revenue Allocation website
- Utilized regular expressions for client/server-side data validation, text searching and replacement and text parsing.
- Environment: ASP.Net 2.0, SQL Server 2005, T-SQL, VB.Net, JavaScript, CSS, IIS, Windows Server 2003, Visual Studio, Microsoft Office, Integration Services, Active Directory

Education

Bachelor of Arts, Business Administration, August 2005

Western Washington University (WWU), Bellingham

- Major: Management of Information Systems
- G.P.A. 3.49

Related Course Work: Personnel Management, Business Management, Business Ethics, Business Law, Economics, Statistics, Marketing, Systems Analysis, Application Development and Web Site Management.

Certifications

- Microsoft Certified Application Developer (MCAD)

- Microsoft Certified Professional (MCP)
- Information Systems Analyst (ISA) Certification (ICCP)
- Web Site Management (Internet Studies Center)

Professional Affiliations

- .Net Developers Association
- Eagle Scout
- Management of Information Systems Association (WWU) Alumni
- Beta Gamma Sigma International Honor Society
- Phi Eta Sigma National Honor Society