Michael W. McKechney

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SUMMARY

Ten years of experience in Information Technology in progressively more responsible positions. Functioned as web developer, designer, analyst, and then as Chief Architect of several enterprise class systems at Global Crossing and Croop-LaFrance. Acquired 3+ years experience managing a diverse, multi-location global software engineering team developing enterprise-wide corporate critical web and client applications. Have dealt with many global issues including localization and language and maintained systems with 24/7 availability.

Certifications: **Microsoft Certified Applications Developer for .NET** (December 2003)
Includes design and development in ASP.NET, .NET Windows forms and XML Web Services.
Microsoft Certified Professional (April 2003)

Programming: Extensive applications development experience using C#, VB.NET, .NET Windows Forms, ASP.NET, XML Web Services, AJAX, SQL, Visual Basic, VB Script, Active Server Pages, JavaScript

Systems: 10 years of IT experience using Windows Server 2003, Windows 2000 Server/Professional, MS-SQL Server 2005/2000, IIS 4.0/5.0, Windows XP/NT/98/95, SharePoint 2003/2007

Software: Visual Studio.NET 2008/2005/2003, Subversion Source Control, Visual Studio 6.0, Source Safe, XML-Spy, MS-Office, Access, Outlook

PROFESSIONAL EXPERIENCE

10/2007 to Present

Systems Development Manager, Paychex Inc.

- Responsible for a development and quality assurance team of 16+ individuals. Implemented several process improvement strategies, including migration from Source Safe to Subversion source control and the Scrum agile programming methodology.
- Work with multiple areas within the corporation to manage scheduling, resource management and technical specifications.
- Participate in strategic and tactical planning and decision making for product direction and architecture.

2/2004 to 10/2007

Senior Manager Software Engineering, Global Crossing

Project: Intelligent Front Office ™ suite of integrated web applications

Responsibilities:

- Architect new set of global web applications and web services to automate internal and external sales forces, providing real time customer data and ordering capabilities.
- Gather, organize and integrate requirements from multiple customer bases.
- Manage long and short term development priorities for multi-site engineering team.
- Mentor a diverse team of engineers toward individual career goals
- Create and maintain technical specifications and project schedules
- Prototype architectural elements for feasibility and reuse across application suite.
- Design and code tools for increasing developer and cross functional efficiencies
- Analyze and improve engineering and system processes

Applied Technologies and methodologies:

SDLC process, C#, ASP.NET, AJAX, ADO.NET, XML, SQL Server 2005/2000, XSLT, Web Services, Subversion Source Control, SharePoint 2003, Active Directory, Code Generation

5/2005 to 6/2006

Database Consultant, DocSite, LLC

Project: Database Optimization

Responsibilities:

- Analysis of multiple database versions to find inefficiencies and recommend indexes and maintenance plans.
- Design and implementation of data auditing system

Applied Technologies:

SQL Server 2000, Microsoft SQL Profiler, Microsoft Query Analyzer

5/2002 to 2/2004

Principle Software Engineer, Croop-LaFrance

Project: Create an on-line e-commerce presence for an ISO-9001 certified computer manufacturer.

Responsibilities:

- Design, architect, and implement a customer facing on-line store and internal site administration application.
- Integrate new system with existing back office platform for order placement, pricing and inventory control.
- Ensure ISO-9001 standards were satisfied during entire shopping and order process.

Applied Technologies:

ASP.NET, ADO.NET, XML, XSLT, SQL Server 2000, Pervasive SQL

- Created data driven store front to be used by computer resellers and retail customers. All pricing, product selection, presentation style and ordering options were configurable for each customer, allowing a highly customizable site.
- Architected and designed a site administration application to allow non-technical individuals to administer every aspect of their customers' site.
- Integrated with an existing Business Vision back office application using a Pervasive SQL database engine.

Project: Development of a data entry and analysis tool used to record failures in experimental hydrogen fuel cells.

Responsibilities:

- Sole developer, requirements gathering and customer interfacing demonstrations of prototypes

Applied Technologies:

.NET Windows Forms, .NET Custom User Controls, XML, XSLT

- Designed and implemented highly customized user controls using C# and Visual Studio .NET to provide a specialized user interface used to capture, analyze and report engineering systems failure data.
- Stored data in tailored XML files for easy portability and data mining.

Project: Development of mission critical, high volume call response system for a Personal Emergency Response Provider.

Responsibilities:

- Gather requirements, design user interface and code business and data access layers.

Applied Technologies:

.NET Windows Forms, Custom Visual Studio .NET Code Generators, ADO.NET, XML, SQL

- Using C#, VB.NET and Visual Studio .NET, designed and implemented a multi-form call response system

- Implemented Business and Data Access tiers using C# to isolate decision making and database access from presentation, providing scalability and performance improvements.
- Developed XML templates and custom Visual Studio .NET code generators to automate the development of repetitive, data storage classes.
- Wrote queries against SQL Server 2000 and Informix 9.0 to store and retrieve data.
- Prototyped OLAP reporting tools for customer to deliver fast access to hierarchical customer and sales data using SQL Server 2000 Analysis Services.

Project: Development of an internal web based time reporting system
Responsibilities:
- Gather requirements, design user interface and code business and data access layers.

Applied Technologies:
ASP.NET, ADO.NET, XML, Custom Web User Controls, SQL
- Created ASP.NET web pages that implemented both .NET Web Controls and Custom Web Controls to provide a rich user interface to capture time reporting data.
- Implemented 3-tier web architecture to supply a consistently fast web response time.
- Used both client and server side data validation.
- Produced web based reporting tools to analyze personnel work hours and project status.

11/1999 to 4/2002

Senior Software Engineer, Global Crossing
Project: Development of an internal, web based, order-processing application capable of handling 1000+ orders per month for global sales force. Integration with electronic provisioning system.
Responsibilities:
- Requirements gathering from multiple customer groups.
- Lead developer coordinating efforts and responsibilities of 8 programmers.
- Designing, coding and maintaining 3-tier application.

Applied Technologies: **ASP, Visual Basic, SQL, MS-SQL Server DTS, JavaScript, VB Script, XML, XSL, Java/JSP**
- Created data driven dynamic web pages for order entry of telecommunication products using Visual InterDev on a Windows NT/2000, IIS platform.
- Developed COM+ components handling workflow, business rule enforcement and data integrity/validation.
- Created automation tool to handle custom HTML fields with client-side form validation based on database stored business rules.
- Developed COM web service client that makes XML remote procedure calls, accepts the XML return and digests the results for multiple data subscribers.
- Wrote queries, stored procedures and views against MS-SQL Server 2000 to store and retrieve data.
- Used SQL Server 2000 Data Transformation Service to schedule daily data updates and conversions from a mainframe data source.
- Produced browser independent scripts for client-side form validation.
- Server side language for handling of ASP page logic.
- Used custom VB script classes as business tier templates prior to conversion to VB components.
- Developed bi-directional integration interface between order entry application and provisioning system.
- Coded XSL transformation documents for display of XML data as web page components.
- Developed Java beans and pages as part of integration effort with order entry system

5/1998 to 11/1999

Web Developer, Pfizer Inc
Project: Improvement of departmental website to track personnel and automate report distribution
Responsibilities:

- Transition site from a static HMTL web site to a data driven, dynamic application.
- Enable the uploading, downloading and storage of departmental reports.

Applied Technologies:

ASP/VB Script, SQL / ADO, JavaScript

- Added dynamic content generated from stored data and user requests.
- Created, queried and maintained Microsoft SQL Server 7.0 using SQL accessed via ADO in ASP pages.
- Coded client-side dynamic HTML presentation by capturing client events.

3/1997 to 12/1999

Web Developer, Younger Chemist Committee - American Chemical Society
Project: Transition a Perl/CGI website into a maintainable Microsoft ASP/ IIS Internet application
Responsibilities:

- Sole developer to convert Perl scripted / text storage web pages into an ASP application storing data in Microsoft SQL server.
- Code ASP template pages capable of expanding as needed to accommodate additional data.
- Create maintenance pages for website updates to be performed by non-technical personnel.

Applied Technologies:

ASP/ VB Script, SQL / ADO

- Developed ASP display templates with matching maintenance pages, which allows for routine site updates by untrained individuals.
- Updated and retrieved data from ASP pages via ADO and generated queries.

5/1994 to 11/1999

Associate Scientist, Medicinal Chemistry - Pfizer Inc
Project: Design, organize and conduct organic synthetic reactions toward the goal of discovering new compounds active against the PDE4 and VCAM/VLA4 asthma targets.
Responsibilities:

- Working with a team of chemists, biologists, and drug metabolism scientists, targeting the synthesis of new organic compounds.
- Utilize on-line searching and existing research to advance the design of multi-step synthetic targets.

EDUCATION/TRAINING

University of Rochester
Master of Science in Synthetic and Physical Organic Chemistry advised by Joseph P. Dinnocenzo conferred May 1994.

Clarkson University
Bachelor of Science with Great Distinction conferred December 1991. Majors: Chemistry and Psychology. Cumulative Average: 3.695/4.0 (3.9 in Chemistry, 3.67 in Psychology)

Microsoft .NET Developer Training Tour

Attended 2-day intense training course that included 16 modules covering all areas of .NET development. Concentrations included ASP.NET and ADO.NET. Walked though code and Visual Studio .NET. Returned with training disc and sample applications.

ADDITIONAL INFORMATION

Patents:

Anthony Marfat and Michael McKechney. *Oxazolyl-acid amide derivatives useful as inhibitors of PDE4 isozyme.* US Patent Office. 6,894,041. May 17, 2005

Anthony Marfat and Michael McKechney. *Pyrrolyl-and imidazolyl-acid amide derivatives useful as inhibitors of PDE4 isozymes.* US Patent Office. 6,869,945. March 22, 2005

Anthony Marfat and Michael McKechney. *Pyrrolyl Thiazolyl-acid amide derivatives useful as inhibitors of PDE4 isozymes.* US Patent Office. 6,559,168. May 6, 2003

Publications/ Articles:

File Hash Generator Shell Extension
Describes a shell extension option that calculates the file hash (SHA-1, MD5 etc.) of a file for use in verifying authenticity.
Posted April 10, 2008 @ http://www.codeproject.com/KB/shell/FileHashShellExtension.aspx

Create String Variables from Embedded Resources Files
Use embedded text files as the source for populating large string variables.
Posted June 14, 2004 @ http://www.codeproject.com/KB/cs/embeddedresourcestrings.aspx

Create String Variable from Text File Source
A utility to consume a text file and produce a code snippet concatenating the contents in a string variable.. and more! Posted June 3, 2004 @
http://www.codeproject.com/KB/dotnet/StringCreator.aspx

Visual Studio .NET "Add New Item" Custom Template Installer
Tool to automate the installation of Custom Item Templates in Visual Studio .NET.
Posted May 21, 2004 @ http://www.codeproject.com/KB/install/Add_New_Item_Installer.aspx

Automated Registration of Visual Studio Custom Tools
Describes a utility to simplify the registration of a VS.NET custom tool.
Posted June 3, 2004 @ http://www.codeproject.com/KB/dotnet/Custom_Tool_Registration.aspx

"SAR of a Series of 5,6-Dihydro-(9*H*)-pyrazolo[3,4-*c*]-1,2,4-triazolo[4,3-α]pyridines as Potent Inhibitors of Human Eosinophil Phosphodiesterase" *J. Med. Chem.;*; 2007; *50*(2); 344-349.

"Isoxazolyl, Oxazolyl, and Thiazolylpropionic Acid Derivatives as Potent a4b1 Integrin Antagonists", Bioorg. *Med. Chem. Lett*. 2001, 11 (19), 2593.

Three-Electron S_N2 Reactions of Arylcyclopropane Cation Radicals. 2. Steric and Electronic Effects of Substitution ,*J. Am. Chem. Soc.;* 1997; *119*(5); 994-1004.

Open Source Projects:

Active Directory Helper
A simple end user utility to query user and group information out of Active Directory
http://sourceforge.net/projects/adhelper/

Subversion Notify for Windows
Enables the multiple path configuration of Subversion source control pre- and post-commit hook actions, including the enforcement of Regex commit checks, integration with the Bugzilla tracking system and sending of detailed Diff e-mails in easily readable HTML format.
http://sourceforge.net/projects/svn-notify/

Multi-Line String Formatter
A handy utility to easily manage repetitive text formatting and processing tasks without the need for any custom scripting.
http://sourceforge.net/projects/stringformatter/

Sql Sync / Sql Build Manager
An all in one tool for building and maintaining a package of SQL scripts to manage builds and updates to your SQL Server database.
https://sourceforge.net/projects/sqlsync/

Enumeration Generator for Visual Studio
Generates C# or VB.NET enumerations and constant values by reading from code/lookup tables in a target database. This is a plug-in code generator for Visual Studio.NET
https://sourceforge.net/projects/enumgenerator

Awards:
Toastmasters Competent Communicator achievement level, May 2008

Winner: Toastmasters International Speech Contest 2008, Postprandial Toastmasters Club
Winner: Toastmasters International Speech Contest 2008, District 65 Area 6
First Runner-up: Toastmasters International Speech Contest 2008, District 65 Central Division

Employees Driven to Global Excellence (E.D.G.E.) Award for extraordinary effort to deliver a product release (2005)

Pfizer Central Research Achievement Award: for Exceptional Initiative in both the Synthesis and Scale-up of a Promising Asthma Compound. (1997)

Professional Organizations/Activities:
Toastmasters International: 2006-Present
Secretary for Postprandial Toastmasters Club: June 2007 – June 2008
Odyssey of the Mind Coach, Primary Level: 2006-Current