

# Charles A. Bedrosian

1344 N Dearborn #16E · Chicago · Illinois · 60102 · mobile (312) 772-3358 · fax (928) 833-5849 · charles@bedrosian.com · www.bedrosian.com

## SUMMARY

Charles is a Senior Microsoft Developer with experience in hands on development, leadership and mentoring roles. He can be counted on for delivering results and making his manager's technology worries go away.

- Seasoned analyst and developer with professional experience working for fortune 500 clients as well as small dot-com start-ups
- Makes projects succeed through rapid, high-quality development
- Broad technical experience delivering solid solutions to a client's business problems
- Extensive experience in developing all aspects of a variety of e-commerce systems
- Extensive middle tier and server-side development experience utilizing such tools as .NET, COM+, Visual Basic, C++, Java Servlets and JSP; experience in emerging technologies (Ajax, XML, WAP, BizTalk, EDI)
- Broad background and eagerness to learn new technologies enables Charles to learn quickly and hit the ground running on new projects.

## TECHNICAL EXPERTISE

.NET, C#, ASPX, VB.NET, WCF, Flex, Visual Basic, XML, XSLT, XPath, XSL-FO, SOAP, Web Services, PHP, LAMP, Perl, C/C++, Java, J2EE, JSP/Servlets, COM/DCOM/COM+, Microsoft SQL Server, MySQL, SQLBase, Access, Oracle, EDI, BizTalk, SharePoint, Rational Rose, UML, Quick Test Pro, Microsoft Build

## EXPERIENCE

*Geneca March 2002 - Present*

Providing lead technical guidance as well as design & development expertise for a .NET WinForm application utilizing WCF to communicate with a Tandem mainframe back-end server.

Designed and implemented a PDF engine in .NET using the iTextSharp library to fill templates and produce a single file from multiple sources for a large insurance company. Lead the development and execution of load testing. Other technologies used include SQL Server 2005 and Visual Studio Team System 2008.

Acted as mentor and lead developer in the development of cross-industry, multiple client direct marketing platform which was utilized by the client to quickly and easily build out portals for the enrollment and management of marketing programs. Targeted industries were automotive and telecommunications. Technologies utilized included Ajax, C#, asp.net and SQL Server 2005, Adobe Flex, and Quick Test Pro. The delivery methodology was based on Geneca's "Getting Predictable" agile methodology and involved fast delivery of iterations in a mission-critical, high-visibility application.

Developed an HTML rendering and printing services on FreeBSD based on Bash & PHP5 to monitor a folder for system generated sales quotes and print them in batches for mail distribution.

Architected and developed a web-based economic forecasting tool for the retirement division of a major human resource consulting firm utilizing C#, Ajax, and Oracle. Data was collected and passed to a compiled Excel spreadsheet for calculations. Office Web Components were then used to generate graphs for display in the web page. The tool was later enhanced with Ajax for a smoother, more responsive user experience. Also worked on a global valuation tool used by consultants preparing economic valuations for corporate benefit plans.

Ported ASP-Access based CRM web site to ASP-SQL Server site for world-wide rollout. Added functionality for extracting selected SQL Server tables and downloading them in an Access database. Then extended the CRM web site for complex layout of a report in PDF. Technology involved XML query results in SQL Server, XSLT and XSL-FO for PDF layout specification and file generation.

Led the object design and development of a collection of scheduling components, written in C#, for a real estate company looking for a home-grown alternative to Exchange.

For a large multi-branded, multi-lingual banking system, developed a .NET wrapper layer around web-service calls to the multiple sources of middleware as a means to isolate the redundancy requirements. Custom Attributes and tools were developed to allow developers to test and debug without access to the middleware, through the saving of and loading from XML flat files and to allow developers access to raw XML before serialization for faster loading into strongly-typed data sets.

Senior architect and lead developer of a productivity project tracking system for a large manufacturing company, used to track projected and actual savings and expenses resulting for productivity changes. Data entry screens collected information which was processed by a close-month routine written as a SQL Server stored procedure. The system utilized .NET, XML, XSL-FO for PDF file generation.

Completed analysis and design of a web-based survey report ordering system using UML for a large industrial psychology firm. All business logic was encapsulated in VB6 COM+ objects, returning XML to the ASP layer, which handled translating it through XSLT for presentation. The ordering was based on a complex matrix of business entities, represented through self-referencing tables in a SQL Server. To ease the complexity in the business layer a robust data provider was developed to communicate with the self-referencing table hierarchy.

Lead analyst and developer for a political lobbying website and email campaign management system which allowed for team building and publication of important issue and bills at state and federal levels. The application is targeted toward many organizations. Components include an independent, scalable email engine, personalized email generation including recipient's policy maker contact info, and website

**Senior architect and designer of Geneca's Virtual Foundation product.** Initially led the porting of the existing Virtual Foundation framework from ASP/VB to .NET. Project included instituting new methodologies and standards for object-oriented framework and content management. Architected new content management approach and extensive enhancements to the application framework. This product has since been the base of several high-profile, highly successful development initiatives.

At a large Human Resource Consulting client, worked as a senior Microsoft web programmer on multiple projects that required fast turn around, tight timelines, and flawless execution to meet dates. Finished projects early and making a large impact on the team. Technologies include ASP, Visual Basic, COM, XML and Oracle.

As Lead Developer, enhanced existing Excel spreadsheet using VBA and XML to provide rich functionality including external data saving, automatic updates over the intranet, data import/update over the intranet and error logging and reporting. Further extended existing functionality to include batch processing and developed several stand-alone utilities to aid in generation of supporting data files.

### ***Projects 1995- 2002***

#### ***FreeDrive (web based storage for consumers and businesses, sold to XDrive)***

Senior Programmer responsible for mentoring junior developers, enforcing architecture, improving procedures, as well as implementing new solutions. Developed and maintained custom, high-performance ISAPI Extension and Filters to handle HTTP-based file uploads, security, and custom redirection. Implemented a SOAP layer to expose key functionality as Web Services to service providers to allow wireless and explorer-integrated access to the FreeDrive services and supporting outside developers in its use. Led initiative to automate B2B sign-up channel. Performed object modeling and design for re-architecture from a class-less to object-oriented, tiered architecture, including evaluation of a transition to .NET or J2EE.

#### ***moveline.com (start-up from North American Van Lines...out of business)***

Moving company agents used moveline.com to manage the logistics of a business move for companies like Starbucks, McDonald's, etc. Architected and developed a BizTalk solution to handle XML and X.12 based EDI for the web spin-off of one of the nations largest transportation and logistics companies. Also led development of an n-tier DNA-based invoicing and payment processing system using Visual Basic, ASP, MTS and Windows2000.

#### ***RadioWave.com (start-up from Motorola...out of business)***

On-line radio broadcasting and systems. Developed web-based players for high-visibility clients for streaming audio utilizing embedded Windows Media Player control and extensive DHTML interaction. Players were both HTML and Flash based and provided out-of-band coordination. Players developed include MSN Chat Radio, Alligator Records Radio, Artist Direct Radio, Rolling Stone Radio and several large radio stations. Architected the company's frameless, DHTML based player as well as the skin-able Flash-based player. Backend development included custom data caching solutions for a 14-server web farm and network of broadcast servers and audio feeds and using XML database queries and XSLT data transformations with a SQL Server 7.0 database.

***WebExpos (on-line tradeshow)***

Lead technical developer for an exposition company's internet spin-off. The system was extensible to handle a variety of show types with customized look and feel. The system was developed using ASP and VBScript to script COM controls and a SQL Server 7.0 database.

***EarlybirdCapital.com (Investment company)***

Maintained and enhanced a specialized investment company's ASP-based extranet. Development involved creation of content management tools and additional functionality including multimedia playback. Since the client used its own designers and layout staff, the architecture utilized a template system, and logical multi-tier model.

***InvestPrivate.com (Investment company)***

Developed a content creation and management system for a large investment site. Also designed and developed job posting and event calendar components of the site for both job/event maintenance and display.

***Chat System (Xceed, Inc)***

Performed all aspects of the development process, including architecture, analysis, design, and development of an interactive chat client in Java 1.2 utilizing AWT and Sockets. This system was a base application that was to be deployed to several clients. It is made up of a custom Java applet that communicates with a multi-threaded chat server written in Visual Basic over TCP/IP through sockets and custom datagrams. Additional features include instant messages, standard chat, user identity, and private chat rooms.

***Message Board (Xceed, Inc)***

Performed full development life-cycle process for the creation of a web-based message board utilizing Microsoft's ASP technology and SQL Server 7.0 stored procedures.

***American Bar Association - Budget Templates Application***

Completed all areas of analysis, design, development and deployment of an enterprise wide budget data collection intranet system which replaced a long, manual process of spreadsheet compilation. This DHTML intensive collection of ASP pages allowed the finance staff to decrease preparation time from 2 months to 1 week, and greatly improved accuracy and speed of budget completion and approval.

***Rank This and Competition Meter (Yesmail.com)***

Tuned and enhanced several PERL spiders and developed ASP-based web sites used to query search engines and analyze results to allow web marketing professionals better position themselves in the search engines, as well as targeting key Internet alliances with companies.

***my.yesmail.com (Yesmail.com)***

Performed key technical development of front-end web pages developed in ASP, as well as extensive business logic and database access objects in Visual Basic, for an Internet start-up. The entire system was developed very rapidly, yet maintained a superior quality level.

***Merced Medical - Medical Supply Catalog***

Developed an online catalog system for a major medical supply manufacturer, allowing hospitals to place quote requests online. ASP, JavaScript, and VBScript were used extensively on both client- and server-sides to optimize performance and reliability. This system also facilitated the generation of updated paper-based catalogs through Office97 automation and VBA.

***Wheels, Inc - Vehicle Ordering***

Led the development of an ASP-based Internet system that allowed drivers to place orders for company-leased vehicles over the web. A collection of business objects, written in Visual C++ and Visual Basic, were used to access a Microsoft SQL Server database. Dynamic HTML (DHTML) was used extensively to handle complex client-side forms. Unique to this system was the requirement to accept credit cards for driver-paid options, however for risk-limitation, all capturing and processing was done at another site. This interchange was invisible to the user, and was handled by off-line custom HTTP protocol programming between the 2 web servers to ensure that the transactions occurring on two different servers on different disconnected networks would be failsafe.

### ***Manpower - PowerBase***

Performed technical analysis and development of a large-scale, object-oriented, 3-tier, client/server application. This application drives the daily operations of a Fortune 500 company and was written in Borland's Delphi 2.0. Data was stored on an Oracle 7.3 database and data access was performed by calling stored procedures through a custom wrapper for the Oracle Call Interface (OCI). In addition to development, also served as a Technical Team Lead, acting as a lead developer for a 10-member team.

### ***Mitsubishi Electronics - Specification Wizard***

Designed and developed a fully object-oriented collection of Wizards in Delphi 2.0 to generate pre-sales specifications as RTF documents. The user could customize the templates used for each specification type. Because the solution had to be small and useable without any installation program, the Borland Database Engine could not be used. As an alternative, a collection of components was developed to read information from custom flat files. This application was later ported to a series of Active Server Pages complete with DHTML running NT Server under IIS on for use on an Intranet. This Intranet was accessed with 4th generation browsers from Netscape and Microsoft.

### ***Mitsubishi Electronics - UPS Monitor***

Performed all analysis, design, and implementation of a mission-critical, Windows NT-based system for an international, Fortune 100 company. The system was required to communicate with the company's large-scale, 3-phase UPS systems via RS-232 serial ports. The status is monitored and presented to the user in real-time and logged to a Simple Network Management Protocol (SNMP) Management Information Base (MIB). Minor faults triggered notification to administrators via email, and severe faults triggered notification via pager and launched server shut-down routines. This object-oriented system was developed with C++ using Borland's Object Windows Library (OWL).

### ***Harcourt Brace - Bar-review Preparation Software***

Designed and implemented a Delphi 1.0 system for a Fortune 500 company providing training and self-testing solutions to law students. The multimedia application allows students to review test cases and take tests and see how well their responses would compare with current law practice. The application used a central Oracle database and local paradox tables. The project involved client/server computing and object-oriented design and programming. Later ported the Windows-based bar-review software to the Macintosh platform using Visual FoxPro for the Mac.

### ***Ameritech - Compensation Administration System***

Developed a Client/Server system, used by the management of a Fortune 100 company. The portion of a solution used by the compensation staff was a self-contained client/server application written in Visual Basic and was used to maintain data in a Sybase back-end. Database access was done through Intersolv's SequelLink ODBC and SQL-passthrough dynasets. At year-end, the data was accessed through a second, cross-platform application written in FoxPro for Windows and Macintosh through the SequelLink ODBC. This project involved object-oriented analysis, design, and development and made heavy use of client/server technology.

### ***Medical Weight Management - Weight-loss Center Web Page***

Led the development of an Internet system to present information about weight-loss programs to prospective customers and accept requests for more information. Users also had the ability to verify if their weight qualified them for various programs. Information gathered on the web pages was forwarded by a Delphi program to registered weight loss centers via fax and email. Common Gateway Interface (CGI) interaction was handled via custom developed Delphi object classes. Data was entered into an Oracle database and later accessed from a reporting service via standard Delphi controls.

### ***Bacons Media - Media Research System***

Developed several annual releases of a media research tool used to target advertisements. Essentially, this system was an advanced query tool written in Visual FoxPro for both Windows and Macintosh platforms. Multiple versions of the system were created for large-scale client/server use as well as slower desktop based use. This system was later ported to Active Server Page technology using VBScript on the server-side and JavaScript on the client-side.

### ***Bacons Media - Macintosh Communications Library***

As a portion of the media research application, developed a Shared Code Library using C++ CodeWarrior for the Macintosh to handle modem communications and ZMODEM file transfer protocol to upload files to a BBS in the central mailing house.

***Dunn Systems - Web Server Monitor***

Developed Delphi-based utility to monitor the status of remote web servers, by connecting via HTTP protocol and using Ping algorithm. Network administrators were notified via alpha numeric pager through the Simple Network Paging Protocol (SNPP).

***Dunn Systems - EDI Link***

Developed a base application in FoxPro 2.5 for DOS to interface between EDI trading software and SBT accounting software. This included integrating to retailers such as Kohl's, Kmart, Sears, Menards, Lowes, Meijers, and others. This application was designed and written as a base application, and was customized for use with different trading companies and to handle differences in business and accounting practices.

***Ballard Healthcare - Personnel Availability System***

Developed a personnel availability system that allowed users without a computer to communicate easily with a receptionist's computer through the office telephone system. By using Windows Telephony API (TAPI), the users were able to dial up the modem attached to the computer, interacted with a menu of voice prompts to update their availability status. This system was written with Borland C++ and the Object Window Library (OWL).

**CERTIFICATION** Brainbench Certified: Active Server Pages, Visual Basic 6.0 (*Transcript ID 2555851*)

**PERSONAL** Fluently speaks and writes Spanish.

**EDUCATION** *DeVry Institute of Technology, Addison, Illinois* *June 1995*  
Bachelor of Science Degree in Computer Information Systems

***Geneca, Oakbrook Terrace, Illinois***

In-service Training: Getting Predicable (SCRUM/Agile), Function Point Analysis, Risk Management, Systems Thinking, Information Architecture