This resume covers in depth my technical background in problem solving to improve people’s technology experiences and deepen a company’s bottom line. My current career path centers on working with people where I often assume the role of Business Analyst as much as a Software Architect.

Project Management

At Ernst & Young I gained numerous experiences working with multi-disciplinary teams distributed globally to bring together web based solutions and experiences for clients and their audiences. I functioned as both a webcast developer, building out our delivery platform (from the backend admin to client UI ), and later as a producer working with clients who needed to leverage E&Y’s resources to actually deliver live webcast content from a studio – delivered streaming over the web.

Service Oriented Solutions

I understand web services “going and coming”. At my current position, I architected an integration whereby a web service provided by a high volume customer could create orders directly in our AS/400 system. More recently I was tasked with an integration project where customer data from our CRM tool had to synch with our newly acquired ERP software package (Microsoft Dynamics) using Windows Communication Foundation and message queuing.

Content Management Systems

I have a wealth of experience dealing with a wide array of content management systems. In many cases, after building out a solution, I also coach non-technical department leads through content creation best practices – or I assist “power users” with hands-on tutorials. I know how to listen for pain points and develop systems that meet client needs.

Web Developer

With each project I’ve tackled, I’ve had opportunities to gain expert skills using this stable of technologies (HTML, CSS, JavaScript) comprising the modern Web 2.0 user experience. At Ernst & Young, I took a dynamic UI (HTML provided by a 3rd party) and completely overhauled it with my own JavaScript framework -- streamlining the main viewing window. This allowed users better control when switching between video, slides, attachments, polls and Q&A.

I understand how content is perceived by search engine technologies. Not only have I developed site templates which help serve content in a SEO manner, I am also familiar with running Ad Words campaigns and dealing with Google’s webmaster tools.

Thanks again for contacting me,

I look forward to getting to know your company and its goals, understanding your users and their goals, and bringing effective solutions to fruition in a timely manner (using technology when necessary)!

I am a web and desktop developer with over 14 years of experience in varied Microsoft technologies, in both web and desktop deployments. The breadth of my web experience spans over an array of application types – this includes intranet line of business applications, Content Management Systems, ERP systems, e-commerce and much more. I am a fan of object oriented, component-based software design, service-oriented programming, and understanding big picture business workflows.

I am currently deepening my skills in n-tier architecture development (specifically using MVC 4 and Web API) as well as creating effective UI experiences with jQuery and Knockout JS. I’m also a student of best-in-class design patterns for organizing my code structures.

I also have over 10 years of experience with Open Source development. In addition, I have a BFA in graphic design - this creative background greatly informs my decisions when creating effective user interfaces and software experiences.

### Specialties

Business Analysis, Project management, information design, web design, usability & interaction designer, object-oriented programming, design patterns, n-tier, Visual Studio 2003 - 2012, Windows Forms .NET, SQL Server 7, 2000, 2005, 2008, WPF, GDI+, HTML, CSS, JavaScript, JQuery, Knockout, Flash, ActionScript 3.0, C#, VB.NET, ASP.NET (Web Forms, MVC, Web API), PHP, Linux, Unix, MySQL, LDAP / Active Directory, Joomla, WordPress, ClickOnce, SharePoint 2010, Microsoft Dynamics A/X 2009 and AIF

I appreciate your time and consideration of my abilities, and look forward to learning more about opportunities with your team!

## WORK EXPERIENCE

.NET Architect, Elyria, OH

January 2008 to present

* Working with people and technology to solve problems – as both a Software Architect and a Business Analyst. Currently functioning as a project leader of a major infrastructure overhaul of our AS/400 system as we redesign our Order Entry process around a Microsoft technology stack (MVC 4, Web API, Knockout JS, jQuery).
* Played a major role in the implementation of a new ERP system (Dynamics AX).
* Worked with high volume customer to develop a web service capable of pulling shipping documents being formulated in their system (well ahead of actual ship date), then, created companion desktop application to enable our chemists in Customer Service to identify high-maintenance materials listed on these manifest documents. This effectively reduced data entry for creating an order by nearly 100% for this customer’s shipments, and created a workflow whereby our technicians can accept or reject problem materials not allowed by our EPA permit.
* Created special utility (in Windows Presentation Foundation) to help chemists paste in a list of materials and derive appropriate regular expressions and patterns that could be utilized by the aforementioned application – aiding in material identification.
* Overhauled our marketing web presence to utilize the open source Joomla 1.5 content management system, making extensive use of CSS and JQuery to achieve desired visual effects. Installed necessary components to keep Joomla updated and secure.
* Built data migration tools for synchronizing legacy data with a Microsoft Dynamics A/X 2009 installation via Microsoft Dynamic’s Application Integration Framework (AIF) which utilizes Windows Communication Foundation. I’ve quickly learned how to write custom classes in the X++ language (native to AX) for performing common tasks such as: creating batch jobs, customizing forms, and performing routine data maintenance. I’ve created a SharePoint help library and have provided in-depth tutorials on the nature of all our company-specific customizations to our AX installation.
* I was instrumental in helping our company leverage SharePoint 2010 (Foundation) as we built out our intranet. I am familiar with how to create custom applications on SharePoint using both SharePoint Designer as well as full blown “features” created in Visual Studio.

Web Application Developer, Cleveland, OH

July 2004 to January 2008

* Oversaw and promoted continual improvements in my company’s rich-media communications, with a growing mastery of streaming media technologies (Windows Media Encoder, Windows Media Player, Akamai content delivery network (CDN), Camtasia Studio, “multicast”, “unicast”) and familiarity with 3rd party webcasting presentation tools for live, few-to-many interactive presentations.
* Packaged content, in post-production, for VOD (video-on-demand) delivery of what we refer to as “archived” webcasts. This type of packaging can take on many formats. (“podcasting”, Kontiki delivery network, online archive) and required re-tooling HTML and JavaScript borrowed from day-of- event UI.
* Worked with a Senior Application Developer to engineer an administration site that helped us organize and produce our webcast programs and manage supplementary webcast content (ASP.NET, C#, Visual Studio.NET 2003, Web Services, and MS SQL Server 2000). Administration site also is responsible for capturing statistics and generating an array of reports for our various webcast events, this required a thorough knowledge of Microsoft SQL Server 2000 and technical mastery using T-SQL skills, as well as a solid foundation in building normalized relational databases. Not to mention communication skills to work with clients to gather requirements and formulate reporting solutions from cradle to implementation.
	+ **Code Generator / ORM Mapper:** I designed a desktop application (MS Access and VBA, later converted to Windows.NET Forms application) that helped us generate ASP.NET code. (In other words, I built an application to help us build an application.) My application could interact with our SQL Server, and generate C# class files. These files were used to create abstract data objects representing some 70 SQL tables in the database. This application could also generate T-SQL stored procedures and save them directly into our development SQL Server.
	+ **Image Generator:** I built an ASP.NET page capable of generating .GIF images based on text pulled from the database. Thus, we generated routine ‘headline’ graphics for various articles posted on our site much faster than having to use a desktop image application. Furthermore, I built in the ability to FTP the generated images onto the final web host. (C#, GDI+)
	+ **PowerPoint Converter:** I built a Windows Forms application that could take a PowerPoint file, and auto-convert it to PNG format (PNG has the best anti-aliasing coming from PowerPoint) and then, using GDI+, converted the PNG files to GIF or JPG format. My application used web services to interact with our SQL Server database to ascertain which location the newly created files should be transferred to, and then utilized a 3rd party FTP library (.NET DLL) to execute the transfer – greatly speeding up what used to be a cumbersome process for a producer who formerly used multiple applications to assemble a webcast presentation.
* Making continuous improvements to client side interfaces (CSS, HTML and JavaScript, AJAX) utilized in our rich media “webcasting” presentations. Enriching user experience within the presentation.
* Created a Windows Forms application (C#, Visual Studio.NET 2003) that would generate random passwords and usernames. This Windows application could be loaded with custom dictionary files which it would utilize in generating memorable word-based usernames. It would also encrypt the passwords. Passwords could be of a pre-determined length, and could be configured to contain uppercase, lowercase, numeric, and symbolic characters. Passwords could be configured to omit characters as well. You were also allowed to pick from one of several encryption algorithms – SHA1, MD5, etc.
* Worked with the Windows Media Encoder SDK in an effort to figure out methods for creating our own in-house webcast software. This software would have been capable of injecting script commands into a broadcast windows media stream. Script commands would trigger presentation features for the end user who will be watching live web video within a DHTML/AJAX interface.
* Engaged in numerous project management endeavors, interfacing with colleagues from across the globe, gathering requirements and engaging in collaborative, creative problem-solving discussions in order to bring about effective marketing and communication solutions using technology and the internet.

Web Developer, Cleveland, OH

October 2003 to July 2004

* Designed new content management systems for our company intranet, and public marketing sites based on an Open Source package I researched, installed and customized. (PHP / MySQL / Apache)
	+ This entailed full understanding of complex MySQL database table schemes and relationships
	+ Thorough understanding of how PHP connects and manipulates data; abstracts data into classes; and renders data into HTML from those classes.
	+ Created new data structures in the midst of pre-existing 3rd party developed database.
	+ I also engaged in project management as I worked with another department to establish goals, timelines, create a site map, and set expectations for how content would be ported into the system and then how the system would be rolled out.
* Similar to above content management systems, I built a separate solution for creating web-based client proposals. Previously, the head of Marketing created custom client proposals as PDF documents, culled from disparate pieces of various MS Word documents. With my solution, the author can now create these same PDF proposals using my content management system. The old Word documents were converted into a collection of web page templates, and she selectively chooses which content should be included for each client proposal. She now sends clients a URL where they log in and browse their proposal online. Additionally, they can hit a button which will dynamically generate a PDF document which contains all of the pages from their proposal site.
* I built a web-enabled address book that culls employee information from Microsoft Active Directory. This entailed a lot of research to figure out how to make LDAP queries work in PHP.
* Recommended and obtained new web hosting provider for marketing web site and built a FreeBSD virtual private server, installing both PHP and MySQL and configuring the Apache web server, taking necessary precautions to make the server secure against malicious users and hackers, and also being conscious of performance.
* Created and customized all dynamic code for the marketing site (PHP and MySQL) based on code from an Open Source Content Management System (Mambo 4.5). The new site I built featured:
	+ Content Scheduling
	+ Search Engine Friendly URLs
	+ a simple WYSIWYG HTML editor for content administrators
	+ could be quickly revamped cosmetically, utilizing different template "skins"
	+ Compressed “gzip” output to client browsers
* Redesigned marketing site (graphics and HTML) using Adobe Illustrator CS and Adobe Photoshop CS and Macromedia Dreamweaver MX 2004 (and lots of hand coding in TextPad).
* Refreshed legacy marketing site utilizing Dreamweaver MX templates and Fireworks MX “round-trip HTML” technology.
* Performed analysis of page load times between old static Marketing site and new dynamic site and identified weaknesses and inefficiencies.
* Created a custom "file upload" component (JavaScript and PHP) that would be easy for non-technical web authors in our company to create links to Word, Excel and PDF documents on our Marketing site and intranet. Each file link that users create would automatically display on the final web page with its appropriate icon. This use of icons, coupled with links, (a.k.a. predictive linking) saves time for the end user.
* Researched and purchased 3rd party component for the Intranet CMS which allows for the generation of dynamic forms — useful for Human Resources and Training departments who wanted to harness the web in gathering information from employees
* Handled various print media, requested by our Marketing department, from initial art direction and design to final specs, execution and delivery: 4-color magazine advertisements, 2 color flyer inserts, large format indoor signage, logo design. Used Adobe Illustrator, Adobe Photoshop, Adobe Acrobat, Getty Images Stock Photography and other graphics applications.
* Used JavaScript cookies to enhance a proprietary web application
* Provided HTML and JavaScript and Acrobat PDF expertise/training to entire IT department
* Created a CD software installer that will "auto play" - First, I created the graphical splash screen, button states, and then programmed the button functionality. This made our custom software distribution an easier process for the end user and lessened help desk call volume.
* Built a Customer Relationship Management tool – starting with the OpenSource PHPLIST application as a code base. This was basically an email list server that allowed the CEO to communicate urgent industry information with 100’s of clients via subscription. The list server allows interested parties to subscribe, maintain and update their profile, and auto-unsubscribe.

Web Developer

Oak Brook, IL

May 2001 to September 2003

* Designed database-driven corporate intranet (front and back-end), from former static HTML pages. Revised content, redesigned navigation, built new search tools uniquely suited to business requirements (using ASP, SQL Server 2000, Photoshop 6, ImageReady, Illustrator, DreamWeaver, TextPad).

* + Designed complete SQL Server 2000 database solution, from the ground up
	+ Built complex DTS packages and Stored Procedures for manipulating SQL Server data.
	+ Used special COM objects for generating emails and uploading files
* Created web application for administering and sending HTML e-mail campaigns - this included browser based WYSIWYG HTML editor, e-mail address book, and auto-unsubscribe features. (T-SQL, ASP, MS SQL 2000)
	+ Utilized T-SQL and COM objects to execute Excel file uploads that needed to be merged into existing MS SQL 2000 database, and weed out duplicate records automatically
* Built a web based input application (also in ASP) to help admin people populate the intranet database with content and upload documents, reducing need for high-end HTML maintenance to the intranet (ASP, SQL Server 2000, JavaScript).
* Authored online step-by-step how-to documentation to assist content authors when using the new web-based intranet admin tool.
* Performed various maintenance on a wide array of small, e-commerce, JSP based "web stores".

Web Production Artist, moved to Web Production Manager, finished as a Creative Media Developer

February 1998 - March 2001

* Worked as an assistant to the webmaster, designing main traffic areas of the web site and high profile "tab" pages.
* Dealt with usability and intuitive interface issues with an ever-present emphasis on ease of download.
* Generated mock-ups (graphics and HTML) for new features/enhancements to the CoolSavings web site, employing ASP, JavaScript, DHTML and Flash as necessary.
* In-house illustrator for various PR and marketing projects as well as web site content.
* Communicated with back-end developers the best ways to implement the creative HTML, and assisted in interpreting my cosmetic code and troubleshooting errors which arise in actual implementation of new code.
* Trained and led creative team in fast paced environment, executed HTML layouts, provided structure, created documentation of processes and web site growth
* Became reliable problem solver and resource person for creative needs of entire department
* Interviewed new creative applicants, sought out temporaries as needed.
* Quick, reliable producer of solid basic HTML designs for a wide range of diverse clients this entailed expressing design through basic HTML to its fullest potential.
* Learned the differences that arise in Netscape and IE and how to circumvent the issues between them and various browser versions, and made layouts that would display correctly cross-platform.
* Expert source code troubleshooting & problem solving skills were used, with a wide range of software apps to produce each solution.

## EDUCATION

Harding University, Searcy, AR

BFA Graphic Design 1997

BA Youth Ministry 1997

Honor Societies: Omicron Delta Kappa & Alpha Chi

Learning Tree International – Developing AJAX Web Applications - 2007

Learning Tree International – Building XML Web Services with .NET - 2006

Microsoft .NET Developer Seminar 2003

Microsoft Sharepoint Portal Seminar 2002

Macromedia Seminar 2000

Memphis Communigraphics 1993, 1995

Dallas DSVC graphic seminar 1994