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Objective

I am searching for a position in a progressive, established and forward thinking organization where I can leverage my skill sets supporting the design and implementation of enterprise service enablers and applications. I have over 10 years of extensive experience in HTML, CSS, and JavaScript technologies, and solid practical experience in Microsoft technologies, such as ASP.NET/C#, MVC framework, and SQL Server, as well as other popular web technologies. Regardless of the project, language, or platform, I focus on utilizing proven development practices, such as N-tier development, Domain Driven Development, separation of concerns, and utilizing reusable code modules that can be re-implemented upon many applications. I typically leverage existing client- and server-side frameworks to decrease development time.

During the several years that I have been actively involved in the development, enhancement and support of various client web sites, I have also developed toolsets to assist in the development process, object management, and the end user experience. In working for small companies, I have been involved in both the full software development life cycle (SDLC) as well as supporting the sales and interactive client functions of the business. Working in this environment has provided me the opportunity to understand the techniques and key differentiators associated with the successful design and deployment of value added business applications. I am able to work individually or in a team environment, and am always eager to apply new technologies and development methodologies.

In addition to development, I have taken control of creating several project proposals in addition to writing accurate estimate projections, functional specification documents, Scope of Work documentation, and project administration manuals.

Technical

- **Server-side Languages & Frameworks:** ASP.NET/C#, MVC 5, Entity Framework 6, SOAP and REST Web Services (WCF/ASMX), XML/XSLT, JSON
- **Client-side Languages & Frameworks:** HTML5, CSS, JavaScript, jQuery/UI, Knockout.js
- **Mobile Development:** PhoneGap (Eclipse and XCode)
- **Database Systems:** SQL Server 2005+, MySQL
- **Database Connectivity:** ADO.NET, Entity Framework, LINQ-to-SQL
- **Applications:** Visual Studio 2010-2015, SSMS, Photoshop
- **Application Server:** Microsoft IIS 7+
- **Operating Systems:** Windows (desktop and server), OS X, Debian Linux
- **SDLC:** Agile (SCRUM and Kanban)
- **Source Control:** TFS, Git

Work Experience

AscendOne Corporation - February, 2010 – December, 2016, Columbia, Maryland
Senior Web Application Developer

While primarily a debt-management and settlement company, operating under the name CareOne Credit, AscendOne recently created Nava - a specialized health and medical center, of which I was a primary developer.

All applications were developed using ASP.NET/C# and structured in a 3-tier fashion (typically with web service business tier), based on Service Oriented Architecture principals. ADO.NET is used as the SQL data access layer, utilizing static methods to facilitate binding SQL recordset data to composite data objects. Dependency management was typically handled using StructureMap, though MEF was used on occasion. The AutoMapper framework was used for mapping DTOs between different layers of the applications.

Nava Health and Vitality

- Worked with a second developer to design and develop the internal client membership management systems for Nava. The application was responsible for client management, membership management, and lab result management. More importantly it handled the processing of medical protocols relating to hormone dosing and evaluating a client's Custom Vitality Plan (CVP), which created a recommendation roadmap for a client based on medical history, lifestyle, and latest lab results. This web application was created using ASP.NET/C# and the MVC 5 framework. The application ran on both desktops and iPads used by practitioners in the centers, and was designed to be responsive and touch-friendly.
- Solely developed Nava's client-facing website, www.navacenter.com using Sitefinity CMS 6.1 (later 8.1). The website was created using responsive design for the purpose of maintaining a more consistent UI across desktop, tablet, and mobile devices. Sitefinity is primarily a webforms architecture, which was highly-extended by creating custom widgets and

modules for both the front-end and back-end interfaces.

- Developed a WCF web service middle tier to integrate client information with the front-facing website, internal applications, as well as automated SQL jobs. This approach was used in order to consolidate business logic shared throughout the applications and prevent fragmentation and different versions of code.
- Worked with another developer to create a completely custom marketing infrastructure, integrating with ExactTarget (via SOAP API), to allow the business to send automated client emails, such as welcome messages, appointment confirmations, reminders, payment received notifications, and issues with payments.
- Created client-facing product libraries and product importers for Sitefinity, as well as integrated with 3rd-party content providers to create a highly-customized article library.
- Worked closely with the business and marketing teams to gather requirements, discuss considerations, provide input, and obtain feedback at various parts of the development lifecycle.
- Ensured optimal performance by analyzing the amount of page asset downloads, use of caching, and file size.
- Created image sprites in Photoshop.
- Utilized the LESS CSS pre-parser for external and internal web applications.
- Unit-tested projects using Visual Studio and the Moq mocking framework.

CareOne Debt Management

- Worked with a team of four developers to maintain and update a fleet of client-facing websites as well as intranet applications, all of which are built upon ASP.NET/C#, on top of a WCF and ASMX web service middle tier and custom ADO.NET data access layer.
- Worked with developers to refactor and optimize the DAL, used by the CareOne websites, by creating a customized runtime ORM to wrap ADO.NET result sets by use of reflection and custom property attributes. This practice shrank the DAL codebase by roughly 70% by eliminating redundancies and promoting code reuse. The code was eventually refactored further into a package running on a local NuGet server and used across several applications.
- Sole developer of CareOne's Android and iPhone mobile application, created using PhoneGap, which utilized pure HTML/CSS/JavaScript and incorporated the Knockout.js framework for view model binding. The application allowed clients of CareOne to retrieve their balances, manage settlement offers, creditor proposals, modify payments, and view a graph of their debt pay-off.
- Worked to convert legacy ASMX-style web services to use WCF (HTTP binding), as well as make use of lambda delegates to shrink the codebase, eliminate redundancy by refactoring common scaffolding code, and aid in debugging.
- Ensured that client-facing web applications were optimized for performance by use of image/CSS/JavaScript compression and caching, as well as facilitating the use of session- and application-level caching by using extension methods when retrieving data from remote storage.
- Maintained and updated a fleet of email marketing services that tied into our automated events framework and utilized web services exposed by ExactTarget for the sending of email. Many automated processes were created to handle syncing of recipient data, such as opens, click-through rates, bounce type, and subscription status with our local database. This system used a combination of SQL stored procedures triggered from a Windows Workflow process.

Groove Commerce - June, 2009 – February, 2010, Baltimore, Maryland

Web Application Developer

- Worked with a team of 4 (two developers, two designers) to create highly customized ecommerce websites for clients using the ASPDotNetStoreFront cart platform.
- Handled transitions and conversions of product records to new websites as well as created custom product import utilities to ease product transitions.
- In creating a new ecommerce website for Mervis Diamonds, we were required to modify the newest version of Magento Ecommerce along with a custom skin. Several COTS modules were modified and implemented.

Redhead Companies - May, 2007 – June 2009, Columbia, Maryland

Web Application Developer

- As the sole Web Application Developer on staff, I was responsible for implementing advanced web-based technologies to both the company's new and existing web projects. In addition, I played key roles in decision making relating to project technologies, design approaches, and overall software lifecycle management.

- Roughly half of the websites developed implemented a Content Management System I had solely developed at a previous company (*ContentFlare* is detailed under Tivilon work experience). The system was used to aid client personnel to easily build, manage, and maintain their web sites using an intuitive web-based interface. In many instances, the CMS was modified to meet the request of the client. Regardless of the project, the CMS was seamlessly modified to handle the client's specific requests and allowed the client to effortlessly manage all aspects of their website. It has also increased efficiency in development by cutting initial setup time for the website's framework and administration.
- For clients hosted on Linux web servers, a PHP-based version of the CMS was developed, incorporating a MySQL database instead of SQL Server. Building on ASP.NET's approach to website state and session management, I created a mini framework utilizing a JavaScript/PHP backend, handling such features as: cross-page state management, form validation and reporting, and interchangeable interface modules. The JavaScript aspect of the framework was designed to easily allow a developer to modify page callbacks and page loads by passing parameters through a common set of functions. This approach allowed for page-specific requests to be easily handled without writing additional code.
- By utilizing open-source web toolkits such as jQuery and Microsoft's AJAX toolkit, it has allowed both designers and myself to incorporate functionality and effects that not only provided tasteful "eye candy" but also helped usability of the website. We were able to eliminate the need for Flash animations by utilizing this framework, effectively cutting more costs.
- The Center for Public Policy and Private Enterprise (CPPPE) was in need of a modified CMS on a ColdFusion platform with an Oracle 9i database. A similar version of the JavaScript framework above was used to handle cross-page state management, form validation, and configuring page styling. For this project, the JavaScript framework was modified to handle other style aspects of the page such as table formatting, setting up table row hover CSS classes, form field CSS styling, and handling form validation reporting styles.

Tivilon, Inc. - July, 2005 – May, 2007, Baltimore, Maryland
Senior Software Developer and Architect

- As a principal in this small company I am responsible for the design, architecture, development and management of its web hosting system that supported 50+ active clients. These clients ranged from small to medium size businesses, associations, educational, gaming and entertainment websites involving N-tier logical structures and sophisticated designs, utilizing a wide range of development frameworks. As part of my infrastructure support duties, I am in charge of managing Tivilon's web server farm and Domain Name System (DNS) servers for all websites. As part of my pre- and post-sales functions, I am responsible for writing project plans, Information Architecture (IA) diagrams, layout summaries, functional specifications, and proposal documents for our 50+ web clients.
- One of the sites of which I was the sole developer and architect that received industry-wide recognition was the new multiplayer Sudoku gaming website, Number Logic (www.number-logic.com). This website was recognized by Time Magazine's "Top 50 Coolest Sites of 2006" from Time Magazine for its use of many Web 2.0-style features, such as AJAX and user generated content. The website was developed using PHP, MySQL, and JavaScript running on Microsoft Internet Information Service (IIS). Features of the website include cooperative and competitive multiplayer puzzles, live chat with registered users, and member profiles. Once receiving recognition, the website is considered one of the most popular Sudoku sites on the web.
- As part of an exclusive Tivilon product offering to its clients, I developed ContentFlare, an intuitive Content Management System (CMS) using Microsoft ASP.NET/C# running on Microsoft IIS. ContentFlare uses Object Oriented Design and Development principles to allow any developer or web administrator to navigate the tool set through an intuitive interface designed for simplicity and quick access. The interface supports a collapsible hierarchical tree-structure representation of the website which can easily be accessed and modified to allow for the complete customization of your website structure. The tool set also provides the capability to quickly and easily create a website that utilizes powerful features by placing exposed parameterized .NET object calls onto an HTML page. The tool also supports a custom WYSIWYG editor for managing content and images as well as provides the ability to add elements such as E-Commerce shopping carts, donations pages, custom forms (using a drag-and-drop interface), photo galleries, membership, and newsletters tools.
- Developed AJAX-enabled email campaign creation system, MailHarbor, utilizing ASP.NET/C# and AJAX technologies running under IIS 6. It utilizes Asynchronous JavaScript and XML (AJAX) to allow for partial rendering of web page regions. By utilizing AJAX components efficiently, both the server load as well as the time spent navigating the site is greatly decreased, creating the feel of using a native systems application instead of a normal web page.

Personal Development

Software development is not only my job, but also my passion. In my free time, I develop personal projects ranging from ASP.NET web applications to Windows service and console applications. I tend to over-engineer and maintain a separation of concerns for even a simple project in order to practice different software techniques and integrate different packages (such as an Web API, ORM wrappers, or various IoC frameworks). I also utilize frameworks that I don't commonly use in the workplace in order to gain experience in them and eventually introduce them as something that may benefit our team's development process. Such technologies include:

- Entity Framework 6 (database-, model-, and code-first patterns)
- Angular.js
- Self-hosted WCF web services
- Unity and Ninject IoC
- Web API
- SignalR
- Async/Await (TAP) and Task Parallel Library (TPL)
- SQL .NET assemblies

I also experiment with higher degrees of customization on commonly-used frameworks, such as MVC and WCF, for example, such as creating custom view engines and custom model binders, as well as experimenting with the many binding, service/endpoint configurations, and security models for WCF.

I subscribe to several .NET and coding magazines (MSDN, CODE, VS Magazine) as well as podcasts, such as Hanselminutes and .NET Rocks. I also maintain a seldom-updated blog at www.binarydad.com where I primarily write about code and software development.

Most of my code repository is on TFS online, though I have moved a couple projects to Github. Access to source code and sample work from TFS is available upon request.

Github: <https://github.com/binarydad>

Education

University of Maryland, Baltimore County

Major: Computer Science

Degree: Bachelors of Science