**Rich Barrette – Full Stack Software Engineer**

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I am a full stack Software Engineer with 20 years of experience designing highly scalable desktop, web and mobile applications primarily on the .NET platform. I am flexible concerning technologies an am familiar with many languages. I am very comfortable with Agile/SCRUM SDLC methodologies and have implemented and taught them to teams. I am experienced with Application Lifecycle Management and am a proponent of continual process improvement.

WORK EXPERIENCE

**Senior Software Engineer – Nelnet, Inc. Omaha, NE – December 2015 – April 2016**

Primarily responsible for the complete overhaul of the Application Lifecycle Management for the NBS/NTS suite of Nelnet transaction products. Migrated 30 applications ranging from legacy .NET 2.0 batch processes to modern .NET 4.5.1 web services and web applications from local TFS to the cloud (VSO & TFS Online). Post migration of the software, bugs, tasks and ensuring build and release quality I then created and implemented all of the automated build, unit test and notification cycle tasks required to implement Continuous Integration. Created, modified and taught the team to use the online Kanban board. In four months the 3 primary groups I was working for went from 12 week release cycles to 3 week releases with fewer bugs and zero rollbacks or deployment failures.

**Senior Software Engineer - Servpro Industries, Inc. - Gallatin, TN - March 2014 to August 2015**

Design, Implementation and Management of 5 key applications: Servpro.com v2.0 website, Resale Assistance Program website, Ready Plan v3.0 website and webservices, IS Developer wiki website and Ready Plan v3.0 Xamarin apps for iOS and Android.

Performance and Security improvements for Servpro.com. Green-field design and implementation of the Resale Assistance program website which is a content management system used by the Legal and Franchise Resale teams to advertise and assist in the Franchise Resale program. This is a responsive MVC 5.0 site that works on desktop, tablets and phones displaying Images and key statistics of each franchise similar to the MLS for homes and businesses. Responsible for design and implementation of the Ready Plan v3.0 website and phone apps using Xamarin for iOS and Android.

• Skills Used: C#, MVC 5.0, EF 6.0 (code first & database first), Bootstrap (Responsive design), JQuery, AJAX, JSON, CSS, HTML 5, Xamarin iOS and Android, ASP.NET, SQL

**Senior Software Engineer II - Premera Blue Cross - Mountlake Terrace, WA - June 2011 to July 2012**

Instrumental in rollout of Ektron content management system. Designed and implemented masterpages, widgets, javascript/jquery, and styles within context of Ektron framework. Launched redesign of Lifewise Orgeon site in six months. Team lead for Marketing initiatives team, designed and implemented secure side content and tools for multiple lines of business.

• Skills Used: C#, MVC, JQuery, javascript, HTML5, AJAX, XML, XSLT, ASP.NET, SQL

**Senior Software Engineer, Online Search Division (Bing) - Microsoft Corp - May 2008 to May 2011**

Design and Implementation of the Atlas Creative Management Web Service. This web service provides access to 3rd and 4th party customers to their creative and ad campaigns programmatically rather than using the in house media console tools. Extensive use of Agile programming techniques including pair programming and SCRUM. Developed and then implemented the backlog and shipped the project on time. Design and Implementation of Omniture integration project. Essentially a middle tier data feed which allowed for 2 way communication between our ad data and their visualization product. Design and Implementation of Unified Media Planning project. An MVC based dashboard UI to various components and feeds from multiple disparate sources. Design and Implementation of Authorization module for AdExpert product. A middle tier AuthZ component providing real time role based AuthZ services to the hundreds of components that make up the product.

• Skills Used: C#, MVC, WinForms, HTML5, XML, XSLT, ASP.NET, WCF, MSF, SQL

**Senior Software Engineer, OPD - Ascentium Corp - January 2008 to May 2008**

Design and Implementation of Climate Initiative Calculators used to normalize calculations and large data sets for tracking and monitoring CO2 emissions and equivalents from cities around the world. The Calculators are the core application functionality behind the Clinton Foundation Climate Initiative (a non profit organization).

• Skills Used: C#, MVC, JQuery, AJAX, CSS, XML, XSLT, HTML, ASP.NET, SQL

**Senior Software Engineer, Web Development - Clearwire Inc - May 2007 to January 2008**

Primarily responsible for feature enhancements, marketing promotions, site maintenance, bug fixes, releases and deployments of the sales portal, vendor portal and customer facing website. Drove design and implementation of port from PHP website to Java. Refactored bulk prequalification software using a

combination of 3rd party geocoding and credit score software as well as in an house database of national tower sector and coverage data to increase throughput 300%.

• Skills Used: PHP, Java, HTML

**Senior Software Design Engineer, Performance & Upgrades - Hubspan Inc - November 2005 to July 2006**

Responsible for upgrading JBoss Application Server for product. Performance analysis for Tomcat/Jetty, switched to Tomcat servlet container based on results. Tuned and updated JDBC for Oracle connections. Proof of concept work for migrating engine DB to Linux from Windows NT. Built web service infrastructure using JBoss Web Services. Did performance analysis on JBossWS vs. Axis.

• Skills Used: HTML, Java, SQL

**Manager, Tax & Surcharge Services - Amazon.com - May 2001 to June 2005**

Focused team to reduce bug count from over 300 to less than 5 in six months. Designed scalable Tax engine, providing taxability for over 1000 merchants on the Amazon.com platform globally. Designed Tax Service, the first highly available and scalable service decoupled from the legacy engines. The service runs via XML/ Http, has robust caching, decoupled database access, over 30 million calls during peak traffic with 5 9′s of availability. Tax Service redesign reduced calculation times from 100ms range to 15-17ms range per call. Increased team size from 4 members to 10 over 1 year period via aggressive recruiting strategies. Design of Surcharge Service, the first Java service in the order pipeline. Expert on scale, availability and performance. Focus on team morale and output, launching bug free software. Focus on customer service, including buying customers, merchants and internal clients.

**Senior Software Design Engineer, Promotions - Amazon.com - May 2001 to June 2005**

Design and implementation of caching solution to scale promotions engine to meet demands of over 1000 merchants interacting with millions of products. Design and implementation of variable promotions generated in real time based on user product choice. Design and implementation of the Goldbox promotion feature. Design and implementation of overlapping promotions for co-branded products, products sold by multiple merchants on the platform. Extensive use of XP programming techniques. Extensive porting of promotions engine from Solaris to Linux, including a major refactoring effort.

• Skills Used: C, C++, SQL, COM, ADO

**Contract Senior Web Developer - Jet City Studios - November 2000 to February 2001**

Design and implementation of a Macromedia Director xtra. Replaced File/IO, email, audio, photo manipulation and binary IO xtra's with one custom xtra that provided these features in addition to file transfer, database accessibility, and media (bitmap, wav) access. Designed and implemented a set of ASP pages and connected them to SQL server 2000 providing Jet City Studios with an extensive bug database. Implementation of a source control system, including documentation of functionality as well as training of in house animators. Design and implementation of various Windows shell extension utilities.

• Skills Used: C++, COM, HTML, ASP, SQL

**Senior Software Design Engineer - Drugstore.com - August 1998 to October 2000**

First SDE hired (7th employee). Design and implementation of the member, shopping cart, shopping list, credit cards, addresses, promotions, shipping, club membership, hazardous materials and user manager COM objects. Logic design and implementation in ASP of the front-end user interface. This included top-level pages such as the shopping list, shopping cart, promotion and checkout pages of the web site.

• Skills Used: C, C++, COM, DCOM, ASP, HTML, XML, SQL

**Software Design Engineer - bSquare Corp - January 1998 to August 1998**

Implemented and shipped bTrack, an expense report application for WindowsCE devices. bTrack consisted of a small flat file database, unique math problems and a dialog based UI. There were four processors (devices) each localized to four languages totaling sixteen individual builds.

• Skills Used: C, C++, COM, HTML

**Software Design Engineer - Verity Inc. - August 1996 to January 1998**

Design and implementation of the setup program for Verity's web-based information-push product, IntelliServ. Program written using InstallShield and InstallScript, with a custom external DLL. Design and implementation of many stress and object test containers. Wrote four web-based tools for testing push and notification messages as well as a stress test application (maelstrom) that simulated web traffic at varying connection speeds and user loads from one to millions of users. Design and implementation of a ticker data sink written in Java that functioned similarly to stock market tickers with clickable links to any information in the sink. Implementation of the email engine that was used as a data sink for IntelliServ.

• Skills Used: C, C++, COM, DCOM, HTML, ASP, SQL

EDUCATION

M.S. in Computer Science & Electrical Engineering Ohio University - Athens, OH 1994 to 1996

BS in Computer Science Ohio University - Athens, OH January 1990 to January 1994