Peter LePage
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Results-driven, full stack, senior software developer with over 30 years of application development. Current experience includes creating single page applications with .NET Core and Angular 6+ technologies. Extensive REST API design and implementations against SQL Server backends. Capable of independent work or as part of a team.

Current Skills: Angular7+ SPA, TypeScript, C#, .NET Core 2.1+, .NET 4.7+, ASP.NET Entity Framework, SQL Server, Object Oriented Design, Design Patterns, SOLID.

Other Skills: Windows Containers, SMART on FHIR, Swift, LINQ, JSON, REST Services, XML, PowerShell, TCP/IP, Windows Internals.

Experience – State of Florida

BayCare Health System - Tampa, FL (9/13 – 4/19)

Enterprise Software Engineering Development – Sr. .Net Developer - (1/16 – 4/19)

Angular 7 / .NET Core 2.1 – Developed reusable, BayCare customized, SPA infrastructure for creating multi-tier web applications. Includes Angular 7 library of components, directives and services supporting uniform BayCare theme and look & feel across BayCare applications.

.NET Core 2.1+ – Created middle tier, REST based infrastructure supporting centralized data logging and common data access.

Implemented OAuth2 / OpenID Connect Azure authorization for UI/UX applications with JWT authentication of middle tier resources. Presently migrating authentication to SAML2 protocol upon management request.

Temporary assignment to Systems Marketing – Sr. SharePoint Developer - (11/15 – 1/16)

Developed Android prototype of a phone / tablet "way-finder" application utilizing GPS and Bluetooth technology to guide family members through hospital facilities. Based on the success of these proof of concept applications, management outsourced development and is being rolled out across BayCare hospitals.

Enterprise Software Engineering – Sr. SharePoint Developer - (9/14 – 11/15)

Joined a team of SharePoint developers porting and enhancing a SharePoint clinical data aggregation portal. This system aggregated clinical data for Doctors offices and their staff. The porting effort migrated an existing 2003 SharePoint system to version 2013. I contributed

custom C# web parts, interfacing with the Cerner EMR, made performance improvements and standardized JavaScript U/I components.

Dell – Services – Tampa, FL (2/12 - 9/13)
SharePoint 2013 Developer – Consultant – C#

Refactor of existing Remedy ARSystem .NET component into a set of PowerShell C# Cmdlets while removing XML internals. These Cmdlets are wrapped in SQL Server stored procedures, so they may be called by the job scheduler of SQL Server.

Implemented Single Sign-On to SharePoint 2010 utilizing a SAML provider.

Created a set of C# Powershell components to import and export data between SQL Server and SharePoint 2007/2010.

Created an .NET automated system to import Dell propriety Remedy ARSystem data into Service Now appliances. The system utilizes the JSON web service of Service Now to read and write data from Remedy based on data content.

Created a light weight, rules engine within .NET for importing data from various sources, normalizing data import by applying rules and facts. Later refactored to include comparisons between tables and creating batch transactions to be later processed. This system interfaces to the Remedy ARSystem .NET component described above. This rules engine is packaged as a C# PowerShell Cmdlet with SQL Server stored procedure calling wrapper.

Refactor of SharePoint 2010/ASP.NET server-side data visualization technology to portable, client-side implementation for deployment with or without SharePoint. Server-side components implemented as .NET 4.0 WCF/REST. Client side implemented in Knockout JavaScript based framework-supporting internationalization, which targets not only ASP.NET, but also Apple IOS and Android touch environments. Additionally, provide support for existing SharePoint 2007/2010 client environments.

Perform system administration tasks as necessary.

BST Global – Tampa, FL (12/10 – 1/12)
Full Time - Sr. Software Engineer – C#

Responsibilities include maintaining and enhancing a long-term, new product .NET/WPF development effort yet to be released. Specifically serve as a member of the Framework team, providing foundational, server-side API support for the product offering as a whole.

Utilized Red Gate ANTS Performance Profiler to analyze and optimize areas of the existing code base with emphasis in execution speed, memory footprint, and lock contention.
Throughout my tenure, framework developers were encouraged to "think outside the box" in order to resolve some architectural issues and improve application performance. I spent time researching Reactive Extensions, T4 Templates and Entity Frameworks as potential solutions to replace .NET code written in house with off the shelf solutions from Microsoft.
Provided enhancement prototype utilizing Task Parallel Library (TPL). Performed an initial evaluation of an early version of "Denali" SQL Server CTP. Developed and maintain a custom,

write thru, data pivot sub-system for inclusion into the product. The pivot sub-system included a custom data binding interface (IBindingList) implementation to expose data to WPF controls.

Ingram Book Company – La Vergne, TN (9/09 – 12/10)
[Full time telecommute position]
SharePoint 2007 Consultant – SharePoint WSS 3.0 / MOSS 2007 / C# / .NET 3.5 SP1

Designed and implemented a multi-threaded, 64-bit Windows service process to import ONIX (XML) files with emphasis on throughput. SQL Server 2008 R2 provided temporary storage and processing data, with ultimate write through to an IBM server with MQ Series message queuing. Each input ONIX file is archived, validated against its XML Schema, and translated into Ingram propriety data format for later processing. Overall control over processing is accomplished with Microsoft Work Flow. LINQ to XML and ADO Entity Framework is utilized for XML handling and database access respectively. The ONIX XML fragments are processed by the Work Flow Rules Engine from separate rules held in SQL Server.

An administrative application; Workflow Rules Editor; and a 32-bit IBM MQ Series Gateway service with exposed WCF interface was created in support of the above described Windows service. Created an Agile prototype of an internally utilized Win-Forms application featuring a third-party query builder component, allowing users to build and execute SQL Server database queries. Designed and implemented a port of an existing DotNetNuke site written in VB.NET to SharePoint 2007 gaining maximum code reuse, while introducing on site developers to C#.

VirtuoGroup Corporation – Woodlands, TX (3/09 – 9/09)
[Full time telecommute position]
MOSS 2007 Consultant – SharePoint WSS 3.0 / MOSS 2007 / C# / .NET 3.5 SP1

Created web response filter (HTTPMODULE) to update URL's destined for differing browser authentication environments. Implemented an event receiver framework to propagate calendar events between separate site collections.
Created small, iconic calendar summary web part for use multiple environments. Augmented search user interface through delegate replacement in order to integrate an existing Google Appliance. Implemented a HttpModule to intercept and deny external web site vulnerability probing extensible with REGEX expressions.

Implemented overall site architecture for a US government agency as separate, standalone site collections, each with their own content database, based on their organizational and compartmental requirements. Consideration was given to the requirement to have multiple content managers aligned with their organizational structure as well as their backup and disaster recovery planning.

Development of four custom web parts, written in C# in conjunction with the SharePoint Application Programming Interface (API), utilized across the US government agency sites. These web parts included a common deployment framework such that they meet the standard practice for web part installation and rely upon a library of C# reusable classes.
Each web part contains one or more SharePoint Custom Lists, Cascading Style Sheet (CSS), Java Script and user interface (U/I) to meet the client's desired look and feel. Additionally, each web part may be deployed in multiple Web Part Zone throughout a particular site and supports overriding the base CSS for customization at the U/I instance level.

US government agency presented unique challenges in the area of site navigation in that the left navigation bar within the Main Portal was to be replicated to its sub sites. This is not behavior built in to SharePoint. Development of a custom web part surrounding a 3rd party Navigation Bar from Telerik was necessary to meet the organizations requirements.

The custom navigation web part utilized programmatic C# access to SPNavigationProvider API and included CSS and Java Script components to accomplish the above implementation. This web part adhered to the common development framework outlined above allowing for reuse, instance customization and deployment.

Development of Backup Scripts was accomplished using Microsoft's Power Shell Version 1.0 utilizing .NET framework in conjunction with SharePoint's command line administration tool (STSADM) to create, backup and restore the Government agency's Site components.

Preformed site branding on US government agency sites, integrating SharePoint's Master Page, CSS, Java Script, Web Part and page methodology with the agency's unique look and feel requirements delivered as a set of images.

Specifically, branding was accomplished utilizing Microsoft's SharePoint Designer (SPD) in conjunction with the custom web parts and third-party web parts to provide the desired look and feel. Creation of custom master pages, CSS, Images, Java Script and pages contributed to the resultant SharePoint integration.

Perot Systems, Inc. (Now Dell, Inc.) – Tampa, FL (12/07 – 01/09)
Software Consultant – SharePoint WSS 3.0 / MOSS 2007 / C# / .NET

Rapidly created and deployed a custom user administration user interface with ASP.NET Dynamic Data technology and deployed within a SharePoint environment. Designed and implemented code behind [C#, .NET 3.5] SharePoint hosted master, content pages [AJAX enabled], user controls, list event receivers and web parts that included SharePoint solution packaging for a major Perot client. Implemented database [SQL Server] and SharePoint List access via C# LINQ language features. Introduced Infragistics ASP.NET controls into SharePoint content pages utilizing ASP.NET LINQ data sources. Remedy help desk system utilizing IIS Hosted WCF with MSMQ persistence. Additionally, provided a SQL extension, through Stored Procedures and Functions [C#] interfacing Programmatically created SharePoint users and groups, reconciled with SQL Server utilizing LINQ. Utilized SharePoint Designer to create and modify SharePoint content. Compiled a set of reusable .NET assemblies as a foundation for the above efforts. Additionally, created various Microsoft Installers and migrated the source code control base from Visual Source Safe to Subversion.

Pinellas County Tax Collector's Office – Clearwater, FL (06/07 – 12/07)
Software Consultant – C#

Designed and implemented two separate instances of SharePoint/MOSS 2007. Created prototype Web Part incorporating AJAX and Silverlight. Created standalone Windows Service to import custom data into SharePoint Lists.

Porting VB6 Intranet Web Application to C# ASP.NET utilizing nested Master Pages. Developed Common C# Library and Web Control Library to facilitate porting VB6 applications. Created a WCF Web Service to provide consistent access from Intranet application to Active Directory objects while isolating from change. Assisted in virtualization of legacy hardware under Virtual Server R2 SP1.

Authentec, Inc. – Melbourne, FL (03/07 – 06/07)

Software Consultant – C/C++

Design and develop demonstration applications in C# WinForms and C++ MFC for fingerprint sensors. Design and modify existing C# and C++ (managed and unmanaged) code that makes up portions of the sensor driver stack. Repair code optimization problems when targeting Vista and XP 64 bit.

Sunbelt Software., Clearwater, FL, (8/04 – 8/06)

Full Time - Senior Programmer – C#

Maintain and enhance Sunbelt's purchased Kerio Personal Firewall product. Extensive modifications to stabilize driver and application components. Migrated licensing and update services from Kerio to Sunbelt services.

Developed Enterprise solution for removal of Spyware in corporate environments. Provide technical direction for a team of three developers. Majority of Client – Server application written in C# utilizing Remoting to communicate between components. Some client components in written in VB6 and C++ to alleviate the need for the .NET runtime for legacy operating systems. Management application written in C# Win-forms / Infragistics frameworks.

Fortis Software., Clearwater, FL, (1/04 – 8/04)

Full Time - Staff Programmer – C/C++

Provide continuing support and enhancement of Microsoft Exchange Add-on featuring email Anti-SPAM filtering. Remote debug of customer installations with Win-DBG. Design and develop [next generation Exchange Add-on supporting Anti-SPAM, Anti-Virus, and additional features.

Experience – State of New Hampshire

Held multiple full time and contract positions while residing in New Hampshire which are listed below. I relocated family to the Tampa Bay area to care for elderly parents.

Newcastle Software., Portsmouth, NH, (1/03 – 5/03)
Consulting Architect – System Design - Java

L3-Communications / Henschel, Inc., Newburyport, MA (9/02 – 1/03)
Consultant – System Design – C/C++, Embedded Systems

NewPoint Technologies, Inc., Salem, NH (7/02 – 9/02)
Consultant – C/C++, Java

L3-Communications / Henschel, Inc., Newburyport, MA (2/01 – 7/01)
Consultant – System Design – C/C++, Embedded Systems

Technomatix – Unicam, Portsmouth, NH (8/00 – 1/01)
Consultant – Machine Interface Development – C/C++

Liberty Mutual Inc, Portsmouth, NH (2/00 – 8/00)
Consultant – Auto Insurance GUI Development – C/C++

NewPoint Technologies, Inc., Salem, NH (11/98 - 2/00)
Consultant - Driver Development Team C/C++, Embedded Systems

Fidelity Investments, Inc., Merrimac, NH (6/98 – 11/98)
Consultant - Web Architecture - Java

Objective Communications, Inc., Portsmouth, NH (9/97 – 6/98)
Full Time - Software Engineer, Client Development Team - Java

Cabletron Systems, Inc., Rochester, NH (1/91 – 9/97)

Full Time – C/C++, Java – Positions Held
Consultant to Network Management Architecture Team
Software Engineer, Technology Integration Group
Software Engineer, ActiveX SNMP Control Development Project
Project Leader – Windows 3.1 Network Management Product

Channel Computing, Inc., Newmarket, NH (1989 – 1990)
Full Time - Software Engineer - Windows 3.0, C/C++ Development

Crossfield Hastech Inc., Manchester, NH (1987 – 1989)
Full Time - Software Engineer - Digital VAX/VMS, C Development

Compugraphics Inc., Willmington, MA (1986 – 1987)
Full Time - Application/Diagnostic Software Developer – C, PL-M, 8086 Assembly

Wang Labs, Inc., Lowell, MA (1982 – 1986)
Full Time - Software Engineer/Diagnostic Software Engineer – C, 8086 Assembly

Gould Inc. / Modicon Div., No. Andover, MA (1981 – 1982)
Full Time - Diagnostic Software Engineer – 8085, 8086 Assembly

Data General Inc., Portsmouth, NH (1977 – 1981)
Engineering Assistant/Test Technician

US Navy 1971 – 1977
Electronics Technician (Honorable Discharge)
Operation and repair of all installed sonar equipment onboard a nuclear fast attack submarine.
Familiar with nuclear, high pressure hydraulic and pneumatic systems.

Miscellaneous Experience

02/2000 – 12/2003 – Part time Police Officer for the East Kingston NH Police Department. Duties included road patrol and computer system administrator.

Education

University of New Hampshire, BSCS Course Work, 1987
Digital Equipment Corporation's VAX/VMS Internals Course

Security Clearance Status

Held C6 Public Trust Clearance with US Agency for International Development (USAID)
Office of Personnel Management (OPM) completed a BI level in 2008.
Clearance is now inactive.

Personal

Former New Hampshire Part Time Certified Police Officer
Former National Registry of EMT certified First Responder