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Seeking an enterprise software development position utilizing state of the art Microsoft and UI/UX front end technologies. I have a strong desire to be geographically mobile therefore, this full time position must be completely remote.

I strongly believe that collaborative web technologies have advanced to a point that makes remote development work more productive overall. Multiple channels of communication, phone, email, text, and video conferencing are readily available when needed to facilitate collaboration or meetings. Meanwhile, while disconnected, the absolute quiet of the home office allows one to focus on the assigned tasks without the constant interruptions that a “cube farm” environment forces upon everyone.

Agile development methodology, with properly scoped work tasks, allows management a consistent measure of a developer’s remote performance. The company enjoys reduced costs as it doesn’t have to provide on premise office infrastructure for the developer. While the remote developer reaps the benefits of not having commuting down time and vehicle maintenance costs.

I have had the opportunity to work fully remote for approximately two years in the past. Since then, occasionally working from home as the need arises. I’ve found that I’m much more focused on those remote days while expending more overall hours than if I were in the office. Yet, I have not experienced any lack of communication or collaboration with my team members while remote.

**I look forward to working with those that embrace distributed working environments.**

(Note: I am required to give a four week notice with my current position.)

**Skills:** Windows Containers, Docker, SMART on FHIR, C#, Swift, JavaScript, Typescript, .NET Core, .NET 4.0 / 4.5, ASP.NET, OWIN/Katana, Single Page Applications, TPL Data-Flow, LINQ, T4 Templates, JSON, Entity Framework, WebAPI REST Services, Design Patterns, Object Oriented Design, SQL Server 2012 R2, XML, PowerShell, TCP/IP, Windows Internals.

## **Experience**

### **BayCare Health System - Tampa, FL (9/13 - Present)**

*Enterprise Software Engineering Development – Sr. SharePoint Developer - (1/16 – Present)*

Technically leading a team of developers in architecting a .NET Core based, three tier application foundation on which to build future web and mobile applications. SQL Server EF backend, REST based middle tier with the UI/UX tier being MVC based complete the foundation. Authentication is achieved via Azure Active Directory utilizing OpenID Connect protocols.

One of five developers within the newly formed development group responsible for new development as well as supporting over 30 legacy .NET applications. While not supporting existing software, my emphasis is architectural level design with SMART on FHIR, Azure, MVC/MVVM technologies and mobile application development of both IOS and Android

applications.

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

Implemented Android Mobile applications with the Xamarin SDK utilizing Apple IOS / Swift Mobile applications as application requirements. Specifically, re-implemented the entire applications including Accelerometer, Bluetooth LE and Camera algorithms within the Android mobile framework.

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

Tasked with full stack support and refactoring BayCare's Doctor Connect Portal to improve stability and performance. Designed and implemented several components for this SharePoint 2013 based portal with .NET C#, Typescript/JavaScript languages. Support and enhance portal connects to clinical data via multiple WCF / WebAPI / Legacy back end clinical data connections.

Created a Citrix “WISP like” web part replacing a web part that Citrix has discontinued, allowing for the display of Citrix remote application catalog and allowing the subsequent launch of those applications.

Convinced management that incremental, modular updates to the existing system was possible and began to improve reliability, performance, modularize and standardize the code base incrementally over time by the following actions.

Created a REST micro-services template based on Owin/Katana/WinAPI. Created instances of these micro-services to obtain clinical data from our off site storage facility to replace an existing, poorly performing access layer. Deployed TPL Dataflow blocks to modularize and parallelize data operations. All data access is asynchronous using async / await language primitives. The above measures drastically improved performance. Unit tests are provided utilizing mock data and authentication is basic authorization due to requirements.

Configured IIS that was hosting SharePoint 2013 to include Application Resource Routing (ARR) and URL rewrite to merge these micro-service's URL's with SharePoint's whereby avoiding any Cross Origin Resource Sharing (CORS) issues.

The recipient of the micro-services data, formatted in JSON is an AngularJS SPA hosted within SharePoint 2013 for our Doctor Connect Portal.

**Dell – Services – Tampa, FL (2/12 - 9/13)**

*SharePoint Developer - Consultant*

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)**

*Sr. Software Engineer*

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 SPI*

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 built 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 SPI*

Created web response filter (HTTPMODULE) to update URL's destined for differing browser authentication environments. Implemented a 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 3<sup>rd</sup> 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*

Designed and implemented two separate instances of SharePoint/MOSS 2007. Created prototype Web Part incorporating AJAX and Silverlight. Created stand alone 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*

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)**

*Senior Programmer*

Maintain and enhance [C++,TCP,WINDBG] 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.

Develop [C#, Remoting, WinForms, SQL Server] 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# Winforms / Infragistics frameworks.

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

*Staff Programmer*

Provide continuing support and enhancement [C++,VB,CDO, MAPI] of Microsoft Exchange Add-on featuring email Anti-SPAM filtering. Debug [WINDBG] customer installations. Design and develop [C#, .NET, WinForms, CDO] next generation Exchange Add-on supporting Anti-SPAM, Anti-Virus, and additional features.

**Newcastle Software., Portsmouth, NH, (1/03 – 5/03)**

*Consulting Architect – System Design*

Provide prototype [Java, JMF] of patent pending technology applied to video. Design system [Java, JXTA, XML, JDBC] to facilitate intra-law enforcement communications scalable to local, county, state and federal governments.

**L3-Communications / Henschel, Inc., Newburyport, MA(9/02 – 1/03)**

*Consultant – System Design*

Complete implementation [C++, CORBA,VB] of communications sub-system for US Navy. Provide architecture design for shipboard IT system for new business opportunity. Develop embedded system [C, ASM] targeting 8052 family processor.

**NewPoint Technologies, Inc., Salem, NH(7/02 – 9/02)**

*Consultant*

Provide updates to distributed video switch control system. Implemented client dialogs [J++] adding robustness. Implemented [SQL Server] stored procedures to optimize video switch server performance.

**L3-Communications / Henschel, Inc., Newburyport, MA(2/01 – 7/01)**

*Consultant – System Design*

System design [C++,VB] of communications sub-system for US Navy. Develop client - server [NT] network protocol [TCP/IP] to convey ship information to remote display terminals. Develop Ship Simulator [C++, Java] to source events [CORBA] for system unit test purposes. Develop COM control to translate network data into VB Events. Develop a COM control for display of compass data.

**Technomatrix – Unicam, Portsmouth, NH(8/00 – 1/01)**

*Consultant – Machine Interface Development*

Provide support [C++] for legacy 16 bit software package. Develop 16/32 bit portable text parsing library [C++]. Port components to 32 bit [C++,MFC] environment. Design special purpose 'Explorer' like [MFC] GUI control. Provide SourceSafe [PERL] maintenance scripts.

**Liberty Mutual Inc, Portsmouth, NH(2/00 – 8/00)**

*Consultant – Auto Insurance GUI Development*

Team member, develop GUI Client application [C++,MFC] new business auto insurance underwriting.

**NewPoint Technologies, Inc., Salem, NH(11/98 - 2/00)**

*Consultant - Driver Development Team*

Architect, develop distributed video switch control system. Client - Server deployment with SQL Server, MTS, DCOM [ATL], integrated with NT Security. Client implemented as Shell name space extension.

Develop OO diagnostics to validate multi-processor, mobile satellite communications vehicle operation. Rational Rose OO Design with C++ Implementation [Green Hill, VxWorks]. Implemented as SNMP data access hybrid for later integration with SNMP Agent [SNMP].

**Fidelity Investments, Inc., Merrimac, NH(6/98 – 11/98)**

*Consultant - Web Architecture*

Evaluate NetDynamics 4.0 Application Server. Develop supporting prototypes [Corba]. Develop new web architecture based on Microsoft technologies [IIS/ASP/MTS].

**Objective Communications, Inc., Portsmouth, NH(9/97 – 6/98)**

*Software Engineer, Client Development Team*

Develop NDIS 3.0 layered device drivers to integrate embedded product with inter-networking. Develop IP datagram, UDP, ARP and DHCP Server for embedded system. [PSOS, TCP/IP] Design client / embedded service protocols. Develop client application service interfaces.

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

*Consultant to Network Management Architecture Team*

Design COM interfaces for a distributed agent component used in next-generation network management architecture.

*Software Engineer, Technology Integration Group*

Develop object hierarchy to provide distributed OO access to legacy system network device data model. [ATL, COM/DCOM, VC++] Develop VB5.0 COM objects to visualize network topologies via Internet Explorer Active Desktop. [IE4.0 Beta]. Develop set management network service using OLEDB's Active Data Object. [J++, Access, Java DB] Develop distributed agent subsystem using JDK Serialization. Develop network device auto-discovery agent using LDAP Server as central data store and Advent Java SNMP stack for device interaction. (Attended Microsoft's Active Directory Services Interface Workshop). Develop ATL/COM object network data source for cross development demonstrations, deploy object technology to VB, J++ and Active Server Pages. Performed interoperability evaluation of Software AG DCOM on Solaris and Windows NT.

*Software Engineer, ActiveX SNMP Control Development Project*

Develop MFC OLE object hierarchy to provide SNMP access to MS Visual Basic programs; including Visual Basic data binding from SNMP data; IDispatch and fast access custom interface; and, VB compliant Dual interface.

*Project Leader – Windows 3.1 Network Management Product*

Define system architecture and manage creation of next-generation Windows network management product.

**Channel Computing, Inc., Newmarket, NH (1989 – 1990)**

*Software Engineer - Windows 3.0 Development*

Develop charting GUI sub-system for Forest & Tree product.

**Crossfield Hastech Inc., Manchester, NH (1987 – 1989)**

*Software Engineer - Digital VAX/VMS Development*

Develop hardware interface software for networked Classified and Editorial newspaper systems. Develop VAX/VMS and UNIX drivers: Linotronic 300 Serial Typesetter, Monotype Parallel Typesetter, TCP/IP Typesetter Print Engine, IEEE-488 based digital camera interface.

**Compugraphics Inc., Willmington, MA (1986 – 1987)**

*Application/Diagnostic Software Developer*

Develop custom software to support a newspaper editorial system using of Novell servers. Develop user account auto-configuration utilities. Develop embedded power up diagnostics for typesetter internal disk subsystem.

**Wang Labs, Inc., Lowell, MA (1982 – 1986)**

*Software Engineer/Diagnostic Software Engineer*

Develop (MSDOS) image transfer TSR to access multiple networked microfiche. PC customer service liaison. Taught 8086 assembly language courses.

**Gould Inc. / Modicon Div., No. Andover, MA (1981 – 1982)**

*Diagnostic Software Engineer*

Develop embedded, power up diagnostics for programmable controllers.



**Data General Inc., Portsmouth, NH (1977 – 1981)**

*Engineering Assistant/Test Technician*

Develop Automated Test Equipment program changes. Develop and review manufacturing diagnostic test plans. Diagnosed and repaired components in electronic equipment for manufacturing facility.

**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