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Summary

- 21 years experience in system analysis, architecture, development and technical leadership; including 15 years designing and developing custom business software solutions.
- Strong working experience in object-oriented design, application development and systems integration. Proficient with the **Microsoft .NET Framework** (3.x, 2.0 & 1.x) and development using **Microsoft Visual Studio (C# and VB .NET)**.
- Experienced with agile methodologies including test driven development, iterative development, continuous integration and associated tools and technologies (**Visual Studio Team System, NUnit, nANT, MS Build and Cruise Control .NET**).
- Experienced with Internet system architecture and development on the **Microsoft Windows/IIS** platform. Web development experience includes **AJAX, Web Services, ASP .NET, XML, XSLT, JavaScript, VB Script and HTML**.
- Extensive experience developing applications for database management systems including **Microsoft SQL Server (2005 & 2000), Sybase, Oracle, and DB/2**. Experienced with creation and maintenance of complex stored procedures and triggers for data access and manipulation. Experienced with **SQL** script debugging tools including **CAST SQL Builder** and **Microsoft SQL Debugger**.
- Background includes projects in a wide range of industries including Health Care, Insurance, Risk Management, Advertising, Marketing, Investment Management, Oil and Gas Production, Brewing and Aircraft Manufacturing.

Experience

06/08 - Present **Senior Developer/.Net Architect**, NATALIS CORPORATION
(Contract with Rural Community Insurance Services/Wells Fargo Bank.)

Working on project teams to re-develop existing line of business systems for crop insurance policy processing used by internal staff and agents nationwide. Development for Windows applications is being done with **Visual Studio Team System 2008 / VB .NET** focusing primarily on UI and middle tier components. UI development is being done with **Infragistics** controls, internally developed custom UI controls and a custom business object framework similar to the **CSLA .NET Framework**. Agile software development practices are being used, including two week iterations, daily stand-ups, code reviews, unit testing and continuous integration using **nUnit** and **Cruise Control .NET**.

03/08 - 06/08 **Senior Developer**, NATALIS CORPORATION
(Contract with Boston Scientific Corporation.)

Assisted development staff with refactoring an existing market share forecasting application for use by international business units. Application development was done using **VB .NET** using the **SynchFusion** grid for

Windows. Primarily involved in extending middle tier components to be compatible with all product lines, roll up to higher levels in corporate divisions, and perform currency conversions.

09/07- 03/08 **Senior Developer/.Net Architect**, NATALIS CORPORATION
(Contract with Verifications, Inc.)

Focused on design and development of user interface and middle tier components to support a highly configurable web based system for ordering background verifications. Development work was done with **Visual Studio 2005 Team System, C#, ASP .NET** and **SQL 2005 (CLR stored procedures)**. User interface work included **AJAX** with the **Telerik RadControls Suite** and the **Yahoo! User Interface Library**.

06/07-09/07 **.Net Architect**, NATALIS CORPORATION
(Contract with Best Buy Co., Inc.)

Worked on design of a web based scheduling and parts ordering system using the **.NET Web Client Software Factory (WCSF)** from the **Microsoft patterns & practices** team. Produced **UML** diagrams (class, sequence and activity) following **WCSF** design patterns and worked with business analysts in designing user interface elements.

11/05-05/07 **.Net Architect/Development Lead**, NATALIS CORPORATION
(Contract with Wells Fargo Bank)

Development Lead for a \$10 million custom application for corporate risk management and reporting, allowing risk related information to be captured and reported across all Wells Fargo business lines. Built a team of 15 highly skilled developers after conducting approximately 200 interviews. Worked with Wells Fargo staff to specify and build-out infrastructure to support development, including web and database servers, source control server, build servers, etc. Documented and mentored development team members on standards, a code promotion model and a continuous integration/automated build process using **nAnt** and **Cruise Control .NET**.

Actively involved in business requirement gatherings, refinement of use case documentation, application domain modeling and preparation of **UML** design documentation using Sparx Systems **Enterprise Architect**. Development work included adding extensions to the **CSLA .NET Framework**, front end and middle tier development using **ASP .NET, AJAX, Telerik RadControls** and **C#** in **Visual Studio 2005** and stored procedure development in **Microsoft SQL Server 2000**.

04/05-10/05 **Web Designer/Developer**, NATALIS CORPORATION
(Contract with Microsoft Corporation)

Developed a Web-based direct marketing application for Microsoft and their marketing vendor, MRM Partners. Utilized the latest toolset from Microsoft: **Visual Studio 2005 Team System, ASP .NET, AJAX, Telerik RadControls, C#** and **SQL Server 2005**. Heads-down work included SQL development, including managed stored procedures, middle tier architecture, UI development and development of unit tests within **Visual Studio 2005 Team System**.

09/04-04/05 **Web Developer/Architect**, NATALIS CORPORATION
(Contract with GMAC-RFC)

Worked on a team developing a Web-based borrower risk assessment and ratings application for deployment to international GMAC offices. Application development responsibilities included building user interface pages and middle tier objects using **C#**, **ASP .NET** and the **CSLA .NET Framework** following design specifications. Development work also included creation of **nUnit** test classes for unit testing and test driven development, and creation of stored procedures using **Microsoft SQL Server 2000**. Assisted with development of build scripts using **nANT** and configuration/setup of continuous integration development environment using **Cruise Control .NET**.

05/04-08/04 **.NET System Architect**, NATALIS CORPORATION
(Contract with Norman G. Jensen, Inc.)

Assessed current client system architectures and business requirements to design a Web-based customer information management system. Authored **UML** documentation for modeling systems, which included use cases and activity, component, class and deployment diagrams using Sparx Systems **Enterprise Architect**. Authored documentation for system design that included recommendations and detailed guidelines for developing a scalable enterprise-class system to meet business and system requirements. Solution is an n-tier system built on the **.NET Framework**, which includes application services (exception management, logging, data access, etc.) making use of **.NET Application Blocks** and custom components. Recommendations also included page template design, security and deployment scenarios.

12/02-01/04 **Web Designer/Developer**, NATALIS CORPORATION
(Contract with Minnesota Board of Nursing)

Worked with a small team of consultants to develop and deploy a custom-built **.NET** based Web portal to handle online services and data services for licensees and other users of the MN Board of Nursing Web site (www.hlb.state.mn.us/mbn/Portal). Work included development of a flexible "wizard" plug-in for the portal to act as a framework for all online services. Also was responsible for re-designing and developing the online payment/credit card processing infrastructure for the portal using EZGov (www.ezgov.com). Worked on a new system architecture for managing document creation, printing and archiving using **Visual Studio .NET 2003** (**ASP .NET**, **VB .NET** and **C#**), **SQL Server 2000** and **Windows 2000**.

05/03-01/04 **Web Designer/Developer**, NATALIS CORPORATION
(Contract with Minnesota Board of Social Work)

Developing and testing an online licensure renewal service using our **.NET** based Web portal for licensees of the MN Board of Social Work. Web site has been deployed and is currently being used by licensees.

07/03-02/04 **Web Designer/Developer**, NATALIS CORPORATION
(Contract with Minnesota Board of Medical Practice)

Developed an online licensure renewal service using our **.NET** based Web portal for licensees of the MN Board of Medical Practice. Web site has been deployed and is currently being used by licensees.

02/01-05/04 **Web Designer/Developer**, NATALIS CORPORATION
(Contract with Vivius, Inc.)

Worked with Web development staff on the launch and support of the Vivius Web site. Responsible for implementing system requirements using **Visual InterDev/Active Server Pages, ADO, and Microsoft SQL Server** stored procedures. Lead the Web usability efforts to standardize presentation and user interaction throughout the Web site. Was responsible for proposing and implementing advanced solutions to various issues using **JavaScript** and **XML/XSLT**. Also worked to design and develop an automated data extraction engine to exchange enrollment data with third parties to facilitate claims adjudication using **Visual Basic, COM, Microsoft Transaction Server** and stored procedures. Developed a data integrity tool to compare data extracts between client and third party data stores using **ASP .NET, ADO .NET** and **C#**. Assisted with conversion of the Vivius Web application from classic **ASP** to **ASP .NET**, using both **VB .NET** and **C#**.

09/00-01/01 **Web Application Developer**, NATALIS CORPORATION
(Contract with Novus Print Media)

Responsible for Web application development for a B2B Web site to facilitate brokerage of print media advertisements between publications and customers (www.novusprintmedia.com). Work included development of **Active Server Pages** and **Visual Basic ActiveX** components hosted in **Microsoft Transaction Server** used to encapsulate page presentation, validation, data access, etc. Involved with several technologies including **COM, XML, XSLT, MSMQ, JavaScript, and HTML**. Also responsible for developing stored procedures in **Microsoft SQL Server** for data access and maintenance.

06/00-08/00 **Web Application Developer**, NATALIS CORPORATION
(Contract with Computer Network Technology, Inc.)

Responsible for database analysis, design and development (including schema, stored procedures, triggers, etc.) using **Microsoft SQL Server** and Web application development with **Macromedia Dreamweaver UltraDev/ASP** and **Visual InterDev/ASP** to support the Literature Delivery System of the re-designed corporate intranet and extranet.

05/98-Present **Web Application Developer**, NATALIS CORPORATION

Responsible for design, development and support of the Natalis Corporation Web site (www.nataliscorp.com). Also designed and developed a Web site as a "proving ground" for enterprise-class Web site deployment using the **Microsoft .NET** platform. Site development work done using **Microsoft Visual Studio .Net, VB .NET, C#, ASP .Net** and **Microsoft SQL Server 2000**

04/98-09/00 **Software Engineer**, NATALIS CORPORATION
(Contract with Achieve Healthcare Information Systems, Inc.)

Lead the design, development and maintenance efforts for the Clinical Documentation suite of applications including modules for Lab Results, Wounds, Vital Signs and User Defined Assessments. Worked with analysts and nursing staff on detailed designs and requirements and wrote resulting Use Case documentation. Provided project plans to senior management and managed a team of developers. Also responsible for leading the re-design of the Admissions & Census application making use of object oriented techniques to encapsulate critical functionality to ensure reliability and maintainability. Assisted with the re-design and deployment of the Accounts Receivable and

Billing systems. Developed applications using **PowerBuilder 6.5** using **PFC** and **Sybase SQL Server 11.9**. Gained strong experience with **Transact SQL**, stored procedures and triggers; and debugging using **CAST SQL Builder** while re-writing the financial suite of applications. Also participated in load testing efforts designing test plans and writing automated test scripts using **SQA Robot** and **SQA Load Test**.

10/97-04/98 **Software Engineer**, NATALIS CORPORATION
(Contract with United Health Care)

Responsible for technical analysis and application development of an enterprise-wide medical records repository and triage system for clients of health insurance providers. Developed with **PowerBuilder** using the **PowerPartner PFC** framework and **IBM DB/2**. Database development work included writing stored procedures and a utility application for data migration. Assisted **NT** administrators with design and support of resulting client/server network solution.

04/97-10/97 **Software Engineer**, MEDINTELL SYSTEMS CORP.

Responsible for application development and maintenance of a commercial software suite used for hospital medication management. Applications included medication management, admissions, inventory, configuration and system reporting. Developed with **PowerBuilder** and **Oracle** in a distributed environment using **Remote Procedure Calls**. Lead the implementation of **PowerBuilder** coding standards for the development staff and was responsible for planning and implementing source control using **Sybase ObjectCycle**.

04/96-04/97 **Sr. Consultant**, SHARED RESOURCE MANAGEMENT, INC.

Technical lead for analysis, design and development of the Licensing and Information Management system for the Minnesota Board of Nursing. Worked closely with business analysts, programmers, network designers and application users to define system requirements and documentation. Developed with **Visual Basic**, **PowerBuilder/PFC** and **Microsoft SQL Server**. Assisted the implementation of the client/server system running on **Windows NT** network and involved with client training.

10/94-04/96 **Sr. Programmer/Analyst**, KEANE, Inc.

Responsible for requirements analysis, project management and application development of an employee quality tracking and reporting application for use by Prudential Preferred. Also responsible for development of utility applications to facilitate various **Lotus Notes** systems. Application development work involved **PowerBuilder**, **Visual Basic**, **Microsoft Access** and **Microsoft SQL Server**.

10/92-09/94 **Control System Engineer**, MESA AUTOMATION
(Contract with Exxon Co. USA / Santa Barbara, CA)

Field assignment at newly constructed onshore oil treatment facility and offshore platform. Responsible for development and support of control system code and control room touch-screen console user interfaces to assist operations and maximize oil production. Plant start-up activities involved extensive troubleshooting of system hardware and software. Gained strong experience with coordination, development, and support of complex systems.

02/92-10/92 **Control System Engineer**, MESA AUTOMATION

(Contract with Brown & Root/Big 3 Industries / Denver, CO)

Responsible for development and support of console interfaces depicting plant processes and instrumentation for power and steam plant process control.

07/90-02/92 **Control System Engineer**, MESA AUTOMATION
(Contract with Adolph Coors Co. / Golden, CO)

Responsible for control system conversion, upgrade, system design and control logic for the brewery grain batch and grind, and mash filter press systems. Work required coordination with management, construction, purchasing, and outside vendors.

01/88-07/90 **Engineer/Scientist**, DOUGLAS AIRCRAFT CO.

Responsible for software development to simulate a wing load alleviation system assisting with the design of the USAF C-17 aircraft, and for calculating distributed hydraulic actuator loads used for structural ground tests utilizing FORTRAN in a mainframe environment.

Education

BS Aerospace Engineering - San Diego State University, December 1987

Technical Skills

Operating Systems

- Windows Server 2000/2003
- Windows XP/Vista
- MS DOS

Development Languages

- C#
- VB .NET
- Java
- Visual Basic 6.0
- SQL, T-SQL, PL-SQL
- HTML
- XML/XSLT
- VB Script
- JavaScript

Development Tools

- Microsoft Visual Studio 2003/2005/2008 Team System
- Eclipse IDE
- Sybase PowerBuilder Enterprise

Databases and Database Tools

- Microsoft SQL Server 2000/2005/2008
- Sybase Server
- Oracle Server
- IBM DB/2
- CAST SQL Builder
- ERwin

Miscellaneous

- .NET Framework (3.x, 2.0 & 1.x)
- Windows Client and Web Development
- Citrix
- Web Services
- UML
- NUnit
- nANT
- MSBuild
- Cruise Control.NET
- CodeSmith
- Adobe Forms & FDF Toolkit
- Microsoft Internet Information Server (IIS)
- TCP/IP