Richard B. Sorensen

28 Alderbrook Drive, Cranston, RI 02920 – 401-578-3232 – rich@westernesse.com

Highlights

- I am a dedicated and customer-oriented software developer and tech leader who loves to create well-designed software solutions. Throughout my career I have served in a variety of technical and management capacities, from team member and leader to corporate director.
- I enjoy all aspects of the software development process – designing systems, creating the code, and managing the process of bringing it to life, and have experience in all of those phases (requirements analysis, specifications, proposals, analysis, design, programming, project management, testing, technical writing, installation, training, and support). My technical focus is primarily on Internet, client/server, messaging, database, language tools, security, and networking technologies - Microsoft's .NET technology (C# and VB.Net) and the Java J2EE suite. Most of my recent experience has been using Agile/Scrum as a development
- I have had management experience at all levels, from managing development teams to corporate governance, including responsibility for budgets, staffing, and revenue generation. Having spent a portion of my career in the consulting business, I have worked in variety of industries, but primarily in the fields of health care, finance, communications, internet, and cyber security.
- I have excellent communication skills. In regard to verbal communications, I have served as conference speaker, a software application trainer, and a senior consultant. In regard to written communications, I have written hundreds of proposals and documentation pieces, and am the author of a number of published articles and several novels.

Education and Certifications

- MS, Internet Engineering, Marlboro College, Brattleboro, VT (GPA 4.0)
- BS, Biology and Computer Science, Wheaton College, Wheaton, IL (GPA 3+)
- MCSE + Internet (Microsoft Certified Systems Engineer, plus Internet)
- MCSD (Microsoft Certified Solution Developer)
- Lotus Notes/Domino CLP Level II (Lotus Certified Professional – Principal Level)
- US Citizen

Experience

- **Industrial Defender** – Foxboro, MA   May 2011 – Present
  Software Engineer for a firm that provides cyber security solutions to the process control industry. My role is to be a senior team member and UI developer for the company's flagship product – an MVP-based web application designed to operate and provide access to a huge data warehouse-style database. Technologies used included C#, Telerik, ASP.Net 4.0, Web (DHTML, CSS, Javascript, JQuery, etc.), Webforms, AJAX, XML, IIS, SqlServer, NUnit, Subversion, and Jira.
- **Envision Technology Advisors, LLC** – Providence, RI   Apr 2010 – Feb 2011
  Senior Software Engineer for a website development and networking technology

firm. My role was to be a tech leader in the development of .Net-based web sites for the firm's clients. In the course of doing this I wrote the "Best Practices" guide used by the software group, and developed several major technology tools that are being used, including a database class creator (ORM tool), an object data source creator for handling Telerik and MS grid controls, and an Exception Handler for automatically inserting try/catch exception handling and logging logic. Technologies used included C#, VB.Net, Telerik, ASP.Net 3.5, Web (DHTML, CSS, Javascript, etc.), Winforms & Webforms, AJAX, XML, IIS, SqlServer, ADO.Net, and COM+.

- **Polaris Medical & Mass General Hospital**   Feb 2008 – Apr 2010
Senior Consultant and Software Developer for several clients. My role was to lead as well as participate in the development of software applications. Projects included an application to produce lens for a nuclear medical division of a Mass General Hospital for the treatment of brain cancer, and a transmission system for securely sending HL7 medical data from laboratories to doctors for Polaris Medical. Technologies used included C#, VB.Net, WCF, WPF/XAML, ASP/ASP.Net 3.5, Web (DHTML, CSS, Javascript, etc.), Winforms & Webforms, AJAX, XML, IIS, Flash, PHP, SqlServer, MSAccess, Postgres, MySql, ADO.Net, COM+, PKI, and internet protocols.

- **Background Checks International, Inc. –** Bradford, PA   Aug 2007 – Feb 2008
Consultant and Software Manager for a company that provides background checks and security clearance scans. My role was to manage the development of the company's systems and eventually all of the IT resources and personnel. I led the team that developed the main background check web application, and managed the successful demonstration of the system to potential investors. Technologies used included C#, VB.Net, Web, IIS, XML, ASP/ASP.Net, Webforms, AJAX, SqlServer, Crystal Reports, ADO.Net, COM+, PKI, and internet protocols.

- **SeaWave LLC** – Middletown, RI   Feb 2002 – Aug 2007
Senior Software Engineer for a marine communications firm. My role was that of a technology leader, software developer, and project manager. I created and managed a number of client applications for ship-board usage and helped SeaWave become the premier provider of solutions for the marine communications industry. The applications included a maritime server (client side done entirely in Java), GPS Tracking, SMS messaging, VPN remote access, Notice of Arrival & Departure, and an HF radio-based mail server and client (similar to Outlook Express). Patents were sought on the HF free-signal technology I developed. Technologies used included Java, EJB, JBuilder, JSP/JSF, Jetspeed, JDBC, Hibernate, Linux, Apache, C#/C++, VB.Net/VB6, Web, XML, ASP/ASP.Net, Winforms & Webforms, IIS, Oracle, Postgres, MySql, MSAccess, SqlServer, Crystal Reports v10, ADO, COM, Exchange (CDO/MAPI/IMAP/SMTP/LDAP/etc.), PKI, and internet protocols.

- **Country Bank & Others**   Feb 1999 – Feb 2002
Senior Consultant. I performed software development for a number of clients. Technologies used included C++, VB6, Winforms, Java, JMS, Swing, EJB, JDBC, Forte, Oracle, MySql, SqlServer, MSAccess, Progress, Informix, DB2, Lotus Domino, Exchange (CDO/MAPI/IMAP/SMTP/LDAP/etc.), PKI, and internet protocols.

- **Bisys Corporation** – West Newton, MA   Dec 1997 – Feb 1999
Senior Consultant for a networking and software support firm. I was responsible for revenue generation via consulting engagements and pre-sales work, and served as a conference speaker and trainer. Technologies used included VB6, C++, Winforms, Java, JMS, Swing, EJB, JDBC, Oracle, MySql, SqlServer, MSAccess, Progress,

Lotus Domino, Exchange (CDO/MAPI/IMAP/SMTP/LDAP/etc.), PKI, and internet protocols.

- **Synaxis Corporation** – Needham, MA   Jan 1983 – Dec 1997
  Senior Software Developer and VP of Engineering for a networking and software development firm. I was one of the founders of Synaxis Corporation, and responsible for technical direction, software development activities, and consulting revenue generation, as well as managing a staff of software developers for this successful technology consulting company. In 1997 I participated in the buyout of the firm by Bisys Corporation. Technologies used included VB6, C++, Winforms, Java, Oracle, MySql, SqlServer/Sybase, MSAccess, Progress, Informix, DB2, Lotus Domino, Exchange (CDO/MAPI/IMAP/SMTP/LDAP/etc.), PKI, Mainframe, and internet protocols.

Business-Related Accomplishments

- Received the DataPro Five Million+ sales award for each of two software products.
- Developed an HF radio/free-signal software product (similar to Outlook Express), for which patents were applied on the transmission protocol employed - <u>Methods to Automate Digital Communication with Multiple Channel Selection Including HF with Automatic Link Establishment System.</u>
- Worked with Microsoft as a Preferred Solution Provider.
- Personally configure and maintain a number of servers for a web-enabled windows domain – IIS, Exchange, DNS, Active Directory, Lotus Domino, and Astaro firewall.
- Past software trainer and speaker for the Boston Computer Society.
- Designed and published a string processing language while in college.

Project Examples

- Developed a C# ASP.Net application (Winforms, Webforms, and WCF/WPF) for the nuclear medical division of a large hospital. This multi-threaded application automates the production of "lenses" used to focus a particle accelerator beam to treat brain, spinal, and retinal cancer. The app takes a set of data points representing the location of a tumor, creates a model for the lens in a 3D rendering application, and then produces the "go-code" for the NC screw machine equipment that will produce the parts. A webforms app was also developed to display the plans, approve them, and issue change requests, with a WCF communication pipe between the web and winforms apps.
- Designed and developed a large VB.Net workflow web application (Webforms) for a firm that performs industrial certification audits (ISO 9001, ISO 14001, AS 9100, etc.). The firm performs audits for both domestic and international companies, and works with auditors on a contract basis. The system handles audit scheduling, submission of audit reports, auditor invoicing, notifications, and provides extensive status and reporting capabilities.
- Developed a large .Net EDI application (Winforms) and an XML web service secured by OpenSSL encryption technology for the secure transport of HL7 medical data from labs to doctors. This involved extensive SQLServer stored procedure work on the server side and Access forms and database development on the client.
- Developed and deployed a comprehensive Java and Linux-based web application as the front end to a wireless maritime voice and data communication system.

Subsystems in this application included email (adapted version of Squirrel mail), compressed web browsing, GPS tracking map display, text and graphical weather, and all of the necessary admin functions. The specific Java technologies included JSP/JSF, Jetspeed, EJB, JDBC, Hibernate, and JBuilder running on an Apache/Tomcat server, and using Postgres as the database engine.

- Developed an industrial-strength application for upgrading the schema of any SQL-based relational database.
- Developed and deployed a number of ASP and ASP.Net-based web sites.
- Created a GUI application for easily creating and deploying OpenSSL certificates.
- Developed and enhanced a multi-threaded .Net web forms (C# & VB.Net) application from obtaining background check data from a number of providers and web services
- Created a multi-threaded music organizer and player for a dance studio in Java, using Swing, JMS, and JDBC.
- Developed a VPN-based client for initiating wireless remote access to computers on board a ship.
- Wrote an SMS and email messaging client for a wireless communication application for use by a ship's crew via prepaid scratch cards.
- Developed an HF radio-based email server and client for doing wireless email to vessels at sea.
- Developed a Java XML order-processing servlet, mail-enabled it with JavaMail and developed white papers on overall Internet strategy for a worldwide crystal and optics manufacturer.
- Developed a SQL generator for reading a database schema and automatically generating all of the logic necessary for VB applications to access a variety of SQL databases (similar to Hibernate).
- Architected and helped develop a high-end web site for online building permits using ASP and COM+ for a municipality.
- Developed an online internet application for stock option trading and position tracking.
- For more examples, as well as downloadable technology which I have written and freely provide to the open source community, see www.westernesse.com.

Technologies

- *Internet & Client/Server Development* – C#/C++, VB.Net/VB6, and Java
- *Web Development* – Telerik AJAX controls, Javascript, JQuery, DHTML, CSS, ASP/ASP.Net 4, AJAX, Flash AS3, PHP, DreamWeaver, IE, Firefox, Firebug
- *.NET Development* –WCF, XAML, COM+/MTS, ISAPI, COM DLL's, Winform & Webform apps
- *Java Development* – Java J2EE, JBuilder, Jetspeed, JSP, Hibernate, AWT/Swing, Servlets, Applets, EJB, JMS, others
- *Content Management Systems* – Telerik Sitefinity and Wordpress
- *Source Control Systems* – Subversion/Maven, Windows Team Foundations, CVS/Tortoise, Visual SourceSafe
- *Internet Protocols* – TCP/IP, FTP, HTTP/S, SSL, LDAP, SMTP, IMAP, POP3
- *Client/Server API's* – XML/XSDL, JDBC, ActiveX/COM, ADO/ADO.Net, CDO/MAPI, ODBC, WinAPI, others
- *Web Servers* – IIS, Apache, Lotus Domino, others

- *Database Systems* – SqlServer, MySQL, PostgreSQL, Oracle, MSAccess, Sybase, Progress, Informix, DB2, others
- *Reporting Systems* – Crystal Reports, MSAccess, Progress
- *Testing & TDD* – NUnit and Visual Studio
- *Messaging* – Exchange/Outlook/Word/VBA, Lotus Notes, GroupWise
- *Networking* – TCP/IP, Point-to-point, IPX/SPX, DNS/Bind/DHCP/NAT
- *Firewalls/Security* – OpenSSL, Astaro, Checkpoint, NetScreen, MS Proxy Server, VPN's, IPSec/PKI, RSA, PGP, others
- *Operating Systems* – XP, Vista, Win7/2003/2000, Linux, Unix, others
- *Project Management & Documentation* – Jira, MS Project, Word, Visio, UML, RoboHelp, InstallShield, others
- *Graphics* – Photoshop/ImageReady, Paint, others