Mary Ann Selander

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Data Solution Engineer

704-303-5334

**Over 25 years of professional experience**

* Innovative Software Engineer specializing in Data-Driven, Web-Based Applications
* .Net, C#, Java, Visual Basic – Object Oriented and Functional Programming
* SDLC expert - design, development, implementation, monitoring and support
* Azure DevOps. TFS,Git Sharepoint, Rational Clearcase/Clearquest
* Dedicated to producing quantifiable contributions to business objectives
* MCDBA - Microsoft Certified Database Administrator - SQL Server 2000
* MCSD - Microsoft Certified Solutions Developer - 2008
* Data access expert – presentation, integration, migration and transformation
* Database Design, Modeling, Analysis, Operations, Deployment and support
* Relational, Dimensional, NoSQL, XML, JSON, et. al
* Microsoft, Oracle, DB2, Informix, Sybase, Hadoop, Mongo, et. al.
* Ensuring supportabililty, scalability, performance, security and availability
* Expert T-SQL skills, stored procedures, dynamic, XPath
* DevOps, Internet/ Intranet Web Server and Sharepoint Administration
* OLTP/OLAP/Stream - Performance monitoring and query tuning
* Diagnosis and resolution of Concurrency and Scalability issues
* Custom Reporting Solutions - SSRS, MicroStrategy, Business Objects, Sharepoint
* Extensive experience with SSIS/DTS, SSDT, SSMS, Visual Studio
* Creative custom data ingestion, presentation, integration and exchange
* Familiarity with client-side scripting, Ajax, XML data islands, jQuery
* Sharepoint Server Administration, Configuration, Development, Collaboration
* Webservices – REST, SOAP, various APIs – XML/JSON HttpRequest/Responses
* Web Server Implementation and Administration
* Server Administration and DevOps – Windows and Unix
* Asynchronous Messaging - (MSMQ, etc) and SQL Service Broker
* Workflows/Pipelines/Service Bus/Event and MessageHubs - Biztalk, etc
* Agile evangelist, ITIL enthusiast, Open-Source advocate, Champion of Efficiency
* Process Modelling, (Re) Design and Automation Specialists
* Character - Tenacious, Resilient, Proactive, Articulate, Versatile, Goal-Oriented
* Motivation - Transforming data to deliver real, actionable insight
* Initiative - Continous Independent Study of Emerging Technologies and Trends
* Familiar with Virtual Environments, Cloud Processing, Big Data, Elastic Capacity

**May 2018 - May 2019 .Net Developer – Consultant -- Healthstat Inc.**

**Healthstat** is the leading provider of onsite health clinics, workplace wellness programs, and health management solutions. As a.Net Developer, my responsibilities included

* Support, maintenance and enhancements of existing software.
* Assist in the overall management and on-time delivery of applications
* Design, develop and implement modern distributed web software solutions.
* Interface with users at all levels of the organization to achieve corporate objectives.
* Contribute to evolution of enterprise architecture, applications and SDLC.
* Data Exchange. Asset Management. Outreach. Health Data Management.
* Deployed Win10 upgrade and reimaged 20+ Surface tablets. Configured 12 Linksys routers.

Windows10..IIS..Visual Studio2015/7..SQLServer2008/12/14/17…NET 4.5+.. C#..HTML5.. XAML..XML..JSON..OWIN..Bootstrap,.CSS,Asp.Net..MVC5..WebApi2..EF..Razor..Rest..WPF.. jQuery..Ajax..VSO/VSTS.. Git..Jira..Confluence..Office365..Skype..Slack..Salesforce..Office365, OneDrive..RayGun..SendGrid..Twilio...

**October 2017 - January, 2018 Consultant at Delhaize America**

Solutions Analyst III for Loss Prevention. Partnered with business areas and IT to lead the gathering, analyzing, and creation of high quality requirements; including validation and traceability, for existing and new applications that support all business channels within the Supply Chain. Plans, direct and completes the analysis of business problems to be solved or product/services to be developed for delivery. Technical leadership for the business providing direction to business and IT on technical issues associated with business problems and/or projects. Maintenance and Enhancement of ASP/VB.Net intranet applications – upgrade to .Net 4.6. Operational support of several SQL Servers – 2008 and 2012. Visual Studio 2017 integration for BitBucket/Git/Jira.

**October 2015 - July, 2016 Signature Consultants at Bank of America**

As part of a platform decommissioning project, remapped and resourced data from existing source (Oracle) to a new source (DB2). Developed a single complex queries using Common Table Expressions to extract source data from DB2 to SQL Seraver for federal compliance and reporting purposes. Implemented a monthly scheduled job in SQL Server to import the new data feed using an SSIS package with extensive data validation, logging and quality controls.

**July, 2014 -- May 2015 Lending Tree**

Senior DBA. As a member of the DBA team, responsibilities were evenly split between administration/operations and new design/development to support both transactional and reporting databases for corporate website. SQL SSIS/SSRS 2012, 2008R2, C#, SDLC. ODS/DW/BI

**08/13 – 02/14 Hewlett Packard**

Senior Software Engineer. HP’s POST solution is a browser-based workflow application built atop an operational data store (ODS). It was designed as the counterpart to Bank of America’s BART solution, facilitating Retail Bank hardware refresh events. As a Senior Developer supporting the POST application, my responsibilities included:

* Facilitate the implementation of software solutions throughout the SDLC.
* Promote best-practices and formal SDLC processes. Implemented TFS.
* Support existing legacy web applications and interfaces
* Architect, design and develop next-gen POST solution on SQL 2008R2, .net 3.5+
* Microsoft SQL Server 2005 – 2010 + SSIS
* .Net 2.0 - 3.5 C# and VB
* SQL Server administration
* Visual Studio 2005/2008/2010
* Web Services (REST)
* CVS, TFS 2008/2010
* Microsoft Sharepoint
* Classic ASP
* IIS Administration, support

**12/12 - 7/13 Bank Of America**

Database Engineer for Home Mortgage (Origination and Closing), I was responsible for:

**General Duties**

* Facilitating the implementation of software solutions throughout the SDLC
* Create, Organize and Manage Work Requests to DBAs, etc for such deployments
* Low- Level Design/Architecture
* Code Reviews,
* Mentoring
* Performance Tuning
* Technical *Subject Matter Expert* (SME) for specific applications

**Data Integration & Reporting Solutions**

* Microsoft SQL Server 2008/R2
* .Net 3.5 C# and VB (single library)
* SQL Agent Jobs Implementation and Configuration
* OLEDB, Native SQL Server driver version 10

**Data Sourcess**

* Microsoft SQL Server 2008/R2
* Oracle
* DB2
* Enterprise Webservices
* Splunk 4.3.5
* Myriad Flat Files
* Unix

**Tools**

* SQL Server 2008/R2
* Visual Studio 2008/2010
* SSIS 2008/R2
* TFS 2008/2010
* Microsoft Sharepoint
* Visio

**PCOT BECC Purchase Close On Time**

Contributed to a major initiative for the client **Line of Business** (Consumer Home Mortgage):

Managing the assignment of ***Available Associates*** to Loan Applications that are ***Active in the Pipeline.***

New **Control *Center*** functionality: Reporting for HOST Upload (website) Usage

Authored the T-SQL Stored Procedure that automates the complex business logic for assigning *Active Loan Applications* (aka “In the Pipeline) to available *Call Center Associates* within the Control Center application. The assignment data generated by this application was sent (via HTTP Web Request) to the ACAPS system.

**2.** **MAS BECC Consumer Website for Document Uploads**

Designed, developed and implemented an ETL solution to pull data via HTTP WebRequest.

MAS IIS web logs are streamed to Splunk. I created a custom solution to pull the Usage data daily.

The **Extract** package is a custom C# .Net 3.5 Script **Task** - uses Splunk’s REST API to:

1. Truncate the Staging tables on the ETL server

2. Initiate the execution of the Saved Searchs on Splunk 4.3.5

3. Poll the Job Scheduler/Search Engine for Job/Search completion

4. Streams the resulting .csv data to an intermediate file

5. Load the .csv file into the Staging tables on the ETL server

The **Loader** package is a simple Control Flow that executes a series of stored procedures that merge data from the Staging tables into the Dimensional and Fact tables that source Control Center reporting.

**3.** **HOST HEFCC Consumer Website for Document Uploads**

Designed, developed and implemented an ETL solution to pull data via HTTP WebRequest.

HOST IIS web logs are streamed to Splunk. I created a custom solution to pull the Usage data daily.

Obviously, I built on this MAS solution. Ironically, the two projects were quite different. The HOST projects was just as challenging as the MAS project!

The **Extract** uses a <**Data** Flow> Script **Component instead**. Streams the resulting .csv data directly to SQL Server Staging tables

**9/12 - 11/12 Bank Of America**

Database Engineer. As a Senior Consultant to the BART team (Bank of America Networked Device Reporting Tool), I was hired as an integral resource in the development of the next release - BART 2013 Release 1. Specifically, I was tasked with:

• Auditing all levels of user access to specific database resources. I automated this function and documented standard procedures for the reporting.

• Identifying unused, redundant and unnecessary database objects and related “dead code”. This entailed reviewing the code-base in the Subversion repository - both web, ETL and Workflow OLTP applications.

• Analyzing database deadlocks in the production environment.

• Analyzing and resolving documented application issues. Traced the root-cause of the issue to a stored procedure in the database. I moved a column from the child to the parent table to correct a data modeling error. I also remediated the existing, dependent objects, isolated to a few stored procedures. Additionally, I communicated with members of the offshore team responsible for maintaining the Web interface for the BART workflow application - as they had hard-coded SQL in the Presentation-Tier code.

• Implement / Rewrite SSIS ETL Import for Corporate Directory - (RDR). Replace existing flat file (push) interface with dynamic real-time query directly against the Oracle database. Document gap-analysis between old and new CorpDir schema.

• Implement new RDR datasource for the Termination Report - a strategic corporate initiative to track BAND devices assigned to recently-terminated associates.

**1/11 - 06/12 Wells Fargo**

Senior Software Developer. Responsible for monthly integration processing of 30+ wholesale insurance source systems into a SQL Server 2005/2008 Operational DataStore (ODS). Supported, enhanced and extended the existing custom SSIS framework. Developed custom integration solutions, mentored less-experienced team members, and established enterprise-class SDLC processes. Provided technical consultation to business users and management. Tools included BIDS, Visual Studio, Sharepoint, TFS, SSIS, SSRS, etc.

**3/10 - 07/10 Bank of America**

Database Engineer. Contributed to the architecture, design and development of a custom analytics solution for call center operational metrics. Responsible for relational and dimensional database design and integration (SSIS) of a generic, data-driven framework for computing operational metrics. Developed a prototype for asynchronous triggers utilizing SQL Server 2008 Service Broker. Implemented web-based reporting with SSRS and Windows Server 2003.

**10/08 - 06/09 Duke Power**

Technical Architect. Participated in the SDLC specification, design, customization and implementation of the Fatigue Management solution - created to achieve compliance with new NRC regulations for work-hour tracking. The application is an industry-specific offering of the **Workforce Time and Attendance** product. The solution was implemented on Windows 2008, SQL Server 2008, IIS, Tomcat and Business Objects. My contributions included functional and technical requirements and technical specification, training strategy, technical requirements, testing, build and deployment, supporting processes and on-call support. I recommended and directed code customizations, interfaced with technical and non-technical project teams as well as vendor personnel. Participated in the integration of this solution with existing software implementations across the enterprise. This integration was achieved with complex Microsoft SSIS services. I also authored and implemented a Sharepoint intranet Support Portal for the user community.

**1/05 - 09/08 Compass Group North American**

Senior Solutions Engineer. Senior team member for the STAFF project (*Scheduling, Time and Attendance for Food service and Facilities management)*. As one of three original team members, I was involved in the STAFF project from its inception. The scope of the project entailed the customization, extension and implementation of a software solution built on a COTS package (Customizable Off-The-Shelf) purchased from a third-party vendor (Toronto-based Infor, formerly **Workbrain**). This application was implemented in Java, JSP and XML on IBM hardware running AIX, DB2 8.2, Websphere 4.x and and WBI (Websphere Integration Service). Development was performed on Windows-based tools and uploaded to AIX with common FTP tools. Additional contributions included :

- Build and release management processes and procedures for enterprise software efforts, including the use of a standard development environments, version control with Clearcase, issue tracking with Clearquest, and automated regression testing with Rational Functional Tester.

- Coding - Eclipse IDE. ClearCase/ClearQuest. Java, XML, XSLT, JSP and HTML - code customizations and extensions, implementation and support of complex business rules and entitlement accrual rules. Developed complex business reports with Cognos.

- Developed a custom tool (written in Java/JDBC) for managing and migrating configuration, master and test data between various environments utilized in the development and testing cycles. Empower Functional Analysts and Business Users with technology - promote and support knowledge of relational data management. Support and mentor others developing custom MS Access tools. Port MS Access applications to Java/DB2.

- Designed, developed, promoted and implemented processes to support repeatable and automated software builds and regression testing. Designed, developed and implemented a custom tool for automated regression testing of web applications utilizing Java/JDBC and IBM’s Rational Functional Tester API.

- DB2 DBA administrative and technical support, DDL and DML development, database design, strategic indexing and concurrency monitoring and management (locking/blocking/deadlocking)

- Participated in the design, specification, development and support of various custom SOA/ESB enterprise integration solutions - using both .Net and Java-based technologies.

**09/02 - 01/05 Compass Group North America**

Web Developer. Participated in the whole development lifecycle of a large vending management intranet solution, iVend, for Canteen Vending Services. Some of my contributions to the project included analysis, architecture, design, development, documentation and support. This centralized solution will be implemented at more than 100 Canteen branches nationwide. Microsoft technologies used in this N-tier solution include Windows 2000, Internet Explorer, jscript, asp, vb, C#, msmq, xml/xslt, BizTalk, SQLServer 2000 (including clustering and replication), and Actuate report server. I developed middle-tier business components with VB6 and complex database stored procedures. I developed custom application integration components to integrate iVend with the corporate ERP system. .Net Upgrade of this solution.

**2/01 -09/01 Fleet Mortgage/ Washington Mutual**

Software Architect. Responsibilities include the development of web applications using HTML, IIS 4 and IIS 5, SSL, ASP, VBScript, Jscript, Java and Visual Basic components running under MTS.

**3/98 - 2/01 Renaissance Interactive, Inc.**

Solutions Engineer. Developed websites using HTML, ASP, VBScript, Jscript, Java and Visual Basic components running under MTS. I contributed to the specification and design of business solutions beginning with the analysis of new business requirements. I consult with developers on database and application design issues. I was responsible for administration of several Microsoft SQL Server 6.5 and 7.0 databases, implementation of development environments, and the support of production servers. I developed n-tier solutions for clients using Visual Basic 6 and the Microsoft Back Office suite of products.

**12/94 - 3/98 Technology Solutions, Inc.**

Technical Consultant. SC Departments of Revenue, Child Support Enforcement and Mental Health, Square D Corporation and SC Electric & Gas Company OS/2 Powerbuilder MicroFocus COBOL VB3 Unix SVR4 Informix Lotus Notes MVC/JCL

**8/97 - 3/98 Affinity Technologies Group**

Sybase DBA. As a junior DBA, I was responsible for implementing and supporting several LOB-specific Sybase Server 11 database silos. I developed complex database stored procedures to implement complex, evolving business requirements. Also responsible for performance monitoring and database replication. The operating environment included Windows NT 4, Sybase SQL Server, OS/2, DB2, IIS 3.0.

**1/94 - 12/94 Policy Management Systems Corporation**

Software Programmer. Developed solutions with Microfocus COBOL, OS/2, MVS/CICS/DB2.

**8/89 - 9/93 Duke Power Company**

Software Engineer. Developed solutions in Microfocus COBOL running on OS/2. Supported software running on MVS/JCL/CICS/DB2. Applications included materials management and asset accounting.

**Professional Development**

**Microsoft Certified Professional ID**: **1127030**

**2003 Microsoft Certified Solutions Developer - .Net Upgrade**

70-300 .Net Solutions Architecture

70-305 .Net Web Applications with VB.Net and VS.NET

70-310 .Net Web Services, Server Components and Framework

70-316 .Net Windows Applications with C#.Net and VS.Net

**2001 Microsoft Certified Database Developer (MCDBA)**

70-215 Installing, Configuring and Administering Windows 2000

70-229 Database Design - SQL Server 2000 Enterprise Edition

**CompTIA i-Net+**

**2000 Microsoft Certified Solutions Developer - VB 6 Upgrade.**

70-029 Implementing a Database Design on SQL Server 7

70-100 Analyzing Requirements and Defining Solution Architectures

70-176 Visual Basic 6 Desktop Applications

70-175 Visual Basic 6 Distributed Applications

70-028 SQL Server 7.0 System Administration

70-087Implementing Internet Information Server

**1998 Microsoft Certified Solutions Developer (MCSD).**

70-027 Implementing a Database Design with SQL Server 6.5

70-160 Windows Architecture I

70-161 Windows Architecture II

70-165 Visual Basic 5

70-026 SQL Server 6.5 System Administration

**Formal Education**

**Strayer University** **10/05 -12/08 MSIS 8/12 courses complete**

**Thesis:** Delivering Quality Software Solutions

A problem, well-defined is half solved.

An Agile Framework for Quality Software Delivery

Repeatable and Automated builds and regression testing

**Winthrop College** **1989 Rock Hill, SC**

Bachelor of Science - Computer Science

Minor in Applied Mathematics. More work than my major!

Significant emphasis in Philosophy and Logic.

Member of the Association for Computing Machinery

**Lancaster High School** **1985 Lancaster, SC**

**References Available upon Request**