**Summary:**

* Over 15 years of experience with MS SQL Server Developer in Financial, Banking and Restaurant industries.
* Extensive experience in database activities like Data Modeling, Database Design and Development, Implementation, Maintenance and Performance. Preferred set of techniques: IO Statistics, execution plans, traces using SQL Server Profiler as well as hints provided by queries of the dmv (dynamic management views).
* Strong relational data modeling: normalizing data at a minimum to third normal form.
* Involved in Data modeling preferred set of tools: Visio, Dia (freeware diagramming tool), Red-Gate Dependency Tracker (a database diagramming tool).
* Experience in creating jobs that kick off maintenance tasks that backup and archive databases.
* Experience using third party tools such as Red-Gate, Quest Lite Speed to manage database backups.

**Education**: B.S. Biology, Concord University, Athens WV

College courses in C++, Java, as well as on the job training VB, VBA, VBScript, C#

**Skill set**

MS SQL Server 2008/2005, Integration Services (SSIS), SQL Server Reporting Services 2000, SQL , SQL Profiler, SQL Query Analyzer, SQL Server Management Studio, Business Intelligence Development Studio (BIDS), T-SQL, Data Transformation Services (DTS), SQL Server Import/Export Data, Java, C++, HTML, CSS, JavaScript, XML, MS Access, Microsoft Word, Excel, PowerPoint, and Visio, Windows 7/XP/2000/98/95, Linux Ubuntu.

**Kinnser Software Inc FEB/2014 - Current**

Kinnser Software is the fastest growing software in the Home Health industry. I am one of three Database developers for 6 teams of ColdFusion/AngularJS developers. I write the complex stored procedures that their Cold Fusion code is calling. I review the Stored procedures that the application developers create. I refactor, tune, and take responsibility to ensure that sql is not the bottleneck when the application is running. We use Sql Server 2008 that currently processes approximately 10,000 transactions per second. I attend Scrum meetings, help score the database tasks in the sprint planning meetings. I am responsible for maintaining the developer environment so that the 6 teams can code on their own sandboxes and I am responsible for merging the multiple teams’ code into one set of deployment scripts that will eventually be moved to production. Working with the two DBA’s I help resolve issues with poorly performing queries.

Tools:  SSMS, Git, GitHub, Tortoise, Sql Profiler, Execution Plans, Gliffy(diagraming tool), Red Gate

**Experian Consumer Direct Dec/2012 – Feb/2014**

Experian Consumer Direct is a division of Experian that focuses on providing credit monitoring and Identity authentication monitoring directly to the consumer.

Project Details: Provide a major Bank in the US access to the services that Experian offers and extend those services with additional data from other reporting agencies. Requires working in detail with web developers modifying current database objects as well as creating new database object to fulfill requirements.

My part of the Project was to create the scripts to update configuration data that the application consumed as well as complex stored procedures to retrieve data from transaction tables.  At the end of the project there were 55 scripts to support the project and approximately the same number of scripts to roll back the project.

Tools:  SSMS, Dimensions (source control and database package manager), DIA(rough diagrams),Visio(Final Documentation)

**Markit On Demand June/ 2010 – Dec/2012**

Markit On Demand is a division of Markit, A London based Financial Services company with offices in Boulder, Dallas, New York, London, Amsterdam, Hong Kong, Tokyo. Markit on Demand is the Boulder office for Markit. Worked on the following projects:

**ShareBuilder** – a retail web site for ING (a financial institution based in Amsterdam)

Time Period: (August/2010 to December 2010).

**Responsibilities:**

* Created a series of Complex Stored Procedures that processed a file provided by ShareBuilder and mapped their set of symbols to Reuters (Financial Data Provider) symbol set. Symbol is often referred to as tickers, and various data providers have a different ticker to a specific company than other providers.
* Created a series of complex Stored Procedures using T-SQL in which the web passed back a customer’s portfolio and the procedure return the breakdown of the portfolio by Sector, Industry, Geography, and Issue Type. The portfolio was passed as a comma delimited pipe delimited list (an xml fragment would have worked better), and sql server substring function and iterative approach was used to parse the string into a relational format.
* Worked closely with the Client Manager to determine what matrix to use. Various data provider have different definitions of Industry, Sector as well as Geography.
* Worked with client manager and web designer on the data elements that the graphical displays needed and the form of the result sets. A pivoted set of data or an un-pivoted set of data. Multiple Result sets or a single result set with an additional attribute to mark which breakdown type the data represents. Aggregate functions were used to provide the various breakdown of the portfolio.
* Since this was a retail site, with an expected volume similar to Yahoo Finance, and Google Finance, the stored procedures required very fine tuning. Using IO Statistics, and a Profiler trace, was able to identify missing indexes, and specific places in the stored procedure that were not performing optimally. Since many of the stored procedures had multiple operations, a trace was the desired tool to use to narrow down the specific process of the stored procedure needing tuning or a table that needs an index.

**MoneyMarketDirectories** – a web site for StandardAndPoors to allow financial planners to find various Retirement Plans that meet certain screening criteria and financial managers with certain specialties.

Time Period: (December/2010 to July 2011).

**Responsibilities:**

* Integrated approximately 165 files. Each file had an average 100,000 to 250,000 lines of data. This data was scrubbed and normalized.
* Working with the provider’s file specification a relational data model was created, and a series of procedures created to transform the raw data into a desired relational model.
* Reporting was accomplished by the web passing in an xml containing output fields with filtering and ordering criteria into a complex stored procedure.
* Used a field mapping table to map the field names passed by the web, into actual column names in the tables, and then construct a SQL query string dynamically to provide output for a variety of reports.
* The project required intense analysis of the data. Identifying Primary Keys as well as Foreign Keys.
* The integration aspect required a variety of logging and scrubbing techniques to ensure that the data inserted in the presentation tables (tables that store the data for web facing stored procedures) was not duplicated or corrupt. If at all possible I prefer using simple non nested triggers for logging purposes, capturing inserts and deletes. However when integrating a file into the database, it would be preferable to use SSIS error redirection as you are iterating through the raw file. In this situation, our internal tools dump the data in a raw table, and procedures are kicked off to transform the data and logging logic is handled inside the stored procedure.

**Small Projects** – summary list of small projects that basically used the same techniques as the steps above.

Time Period: (July 2011/February 2012).

**Merrill Lynch Fixed Income Classification:**

* A complex stored procedure using T-SQL that takes in an xml containing symbols representing mutual funds and ETFs and passes back to the web a breakdown of the constituents similar to what was done in the ShareBuilder project described above.
* This project also requires a logging mechanism to indicate when a symbol in the xml was not a current symbol, so that a report could be provided back in order to fix holes in the data.

**Black Rock Reporting:**

* Import a set of files that Black Rock provided that contained URL pointers to reports for various markets.
* Created a set of Stored procedures that would allow the web to retrieve specific URLs for the specified market.

**MDM- Markit DataMart project**:

* Integrate a commercial database that Markit provides to external clients into the Markit on Demand database structures.
* Created a series of stored procedures that would breakdown the constituents of the ETF by region and sector.

**Transferred to the Products Team (March2012 to present):**

Rather than building custom web applications the Product team builds a suite of products for the Financial Community.

**Trading Compliance Counter Party (March 2012/Sept 2012)**

This application allows a buy side client (a firm that buys trading services) to create a survey for a sell side firm (a firm that provides trading services) to complete in order to monitor regulatory compliance. This application also allows the uploading of signed financial statements as well as setting up contact list between the two types of firms.

* Designed a series of tables to hold Surveys, questions and the provider answers.
* Required sql logic to log any changes to the answers and attestation functionality so that when providers finished the survey, they attested to its validity.
* The procedures in general took xml fragments passed in by the web and deconstructed them into relational format to be stored in the various tables.
* Then there were procedures that took the relational data stored as questions and answers and constructed an XML for to the web to display to the user.
* Reports were generated using FOR XML Explicit (a way to construct an xml with a specific hierarchy) in an xml schema that MS Excel could open in a formatted spreadsheet.
* Functionality was created to allow the Buy Side firms to create a list of contacts that the Sell Side firms (Service Providers) could create a relationship with, thus, have an online directory services connecting people to people.
* Stored Procedures and new tables were created for both sides to allow contact information to be persisted and retrieved.
* A very complex entitlement system was used that allow clients and providers to be validated based on login credentials.

**Single Path Onboarding (July 2012 Sept 2012)**

Currently not all of Markit’s Products allow for a single sign on. This project migrates the logins of two of our products under the same credentialing system.

* Unfortunately because the company has limited experience with SSIS, the method of accomplishing this was a tad bit more cumbersome than was required.
* Step 1, a procedure that outputs the current customer login to a pipe delimited file.
* A separate department using a scripting language parses the pipe delimited file and loads tables in the customer server.
* The web api that creates users and entitlements is called and new customer numbers are created. Wrote a complex stored procedure using SQL that takes those new customer numbers and maps them to the old customer number. Once this is accomplished, wrote a complex stored procedure that duplicated the entitlements of the old customer numbers for the new customer numbers.

**Automating Vote Onboardng (Sept 2012 to Present)**

* When onboarding a new client for our Vote Product, we have a series of scripts that need to be created and ran that make a variety of entries in tables.
* This project is creating a web interface that allows information from the onboarding document to be input, and then a series of stored procedures can be called that does the necessary entries. I am writing these stored procedures and giving guidance of how the gui should look.
* Provided prototypes for the gui using Visual Studio VB.Net. The web developer of course will be using HTML and java script.

**Environment:** SQL Server 2005, SQL Server 2008

**Incomm January/2007 to June/2010**

**Database Engineer**

Incomm is primarily known as a Gift Card Processor; however the Denver Office offered and supported a variety of products.

* Walmart, BestBuy, Cicuit City, Comp USA all at one time used a product that allowed their customers to purchase video and digital services.
* Target used a product that would do a credit check on a customer, and then activate the cellphone that they purchased.
* Walmart used a product that allowed a customer to bypass the Mail In rebate process, and instead receive a gift card for the amount of the rebate.
* Comcast used a product in which a card with a magnetic strip sent to their customer could be used by them to pay their bill at the POS of a convenience store.

Most if not all these products required database modeling, and catalog data migrations.

**Responsibilities**:

* All of the products listed above, had their own database and thus separate permission principals.
* Typically structured the tables using a generated int value (Identity) as a primary key which also served as a transactional ID and a unique index on the natural keys of the tables.
* Implemented OLTP model.
* Used Transaction Replication to move and archive the data from the production servers to the Report Servers.
* Used the Replication Monitoring tool to help identify and troubleshoot replication issues.
* Created a series of SSIS packages that had maintenance tasks to back up dev, Acceptance, Staging, User Acceptance Servers.
* Primary Database Resource to approximately 20 Java developers.
* Wrote various triggers to update certain data elements based on updates from the applications.
* Transferred catalogue data (static data) using Red-Gate data compare.
* For modeling purposes used Visio, and Red-Gate SQL dependency tracker to diagram the various data models.
* Used SQL Profiler to trace activity on product databases in order to identify poorly performing queries needing refactoring.
* Created SQL scripts to add permissions for the office staff to the various database as well as the application logins.
* Primary resource and mentor to the Report Writer on site as well as the Report Writer in India. Reviewed queries and help write complex queries.
* Used Reporting Services 2000 to allow outside clients to login and pass parameter and run reports. This required a thorough understanding how Reporting Services authenticated users.

**Environment:** MS SQL Server 2000, MS SQL Server 2005, Reporting Services 2000

**Einstein Bagel Corp. March/2000 to January/2007**

**Application Engineer**

Einstein Bagels is a Fast Casual Dining chain with approximately 750 units spread across the United States.

**Responsibilities:**

* Third Tier support to the Help Desk on all things related to the store systems. The Primary Subject Matter Expert on the Point of Sales System.
* Redesign of the point of sale to allow for customer to order first and then move to line to pay. Prior the customer would pay at the same time of ordering, the objective was to improve speed of service. This required adding new functionality to store the order by name.
* Redesign of the Point of Sale systems to capture more detail of the order. This allowed a theoretical Cost of Goods sold calculation. The objective was to reduce shrinkage. Instead of ringing in an item in a generic fashion, all details of the ingredients of the item had to be accounted and reconciled with the back office inventory system.
* Monitored and addressed issues for the loading of the site data into the data warehouse. Used Micro-strategies as the reporting tool, on a SQL server 2000 environment.
* Created a VBA application with excel to open up archived store data files and create a spreadsheet that had the complete transactional records for a specific store for sales tax reporting audits.
* Administrator of HEAT, an Incident Management System used by the help desk to log calls from the field.
* Extended the traditional function of Heat to also act as a Risk Management Reporting system.
* Extended the traditional function of Heat to act as a permit and licensing tracking system for the stores.
* Heat used Crystal Reports as the report writing tool, and managed and created many of the management reports from the system.
* Used VB Script to convert data from Heat into a file that could be consumed by Trecs (Treasury Reconciliation system that allowed corporate to monitor bank deposits by the stores.)
* Administrator of Trecs, responsible for all upgrades to the system.
* Using VBscript created another process to take data from Trecs and create an import file for the Lawson system, the companies Enterprise Resource Planner.
* Using Excel VBA created a spreadsheet that would create a bank file to automatically move fees charged to franchises from their account into the corporate account.
* Using Microsoft Access, created an application that allowed the payroll department to track mailings and requests for W-2s.
* Because licensesfor Crystal reports was limited, used VBscript to allow the Distribution department to generate a file for the distribution centers based on data in the Heat system. VB Script used an ODBC connection to the Sql Server 2000 database to retrieve profile data of all of our locations.
* Used VB script to transform files generated by Trecs (bank reconciliation solution) into specific file formats required by a variety of banks in order to consolidate deposits into one bank.