### NAME: Betty I Shirley

Address : 484 Colony Street Fairfield, CT 06824

Phone : 203-259-2283

Email : BettyIShirley@armyspy.com

**EDUCATION**

**Master of Science**: Computer Information Technology

**Purdue University** - Cambridge, Massachusetts 2016

**Bachelor of Science**: Electrical Engineering Technology

Massachusetts Institute of Technology- Cambridge, Massachusetts 2013

**PROFESSIONAL SUMMARY**

* Over 6 years of experience in developing BI applications utilizing SQL server, BI stack, Power BI, and Tableau.
* Involved in Business Analysis of the OLTP and OLAP data and in decision support. Extensive database programming.
* Experienced in Building SSAS Cubes and Dimensions with different Architectures and Data Sources for Business Intelligence and writing MDX Scripts
* Experience in writing T-SQL Stored procedures, Triggers, Constraints, and Indexes using various DDL and DML commands.
* Developed T-SQL scripts for performing automation tasks, Performed and fine-tuned Stored Procedures and SQL Queries and User Defined Functions.
* Strong knowledge of Data Warehousing methodologies and including star schemas, snowflakes concepts.
* Used N-tier architecture for presentation layer, the business and the data access layers and were coded using C#, worked with Agile methodology for application development.
* Generated ad-hoc reports in Excel Power Pivot and sheared them using Power BI to the decision makers for strategic planning.
* Proficient in Creating, configuring workflows designed in MS SQL Server Integration Services (SSIS).
* • Experience in Reporting Services, Power BI (Dashboard Reports), Crystal Reports, SSRS using MS SQL Server and in supporting services MDX technology of the analysis services
* Proficient in designing and scheduling complex SSIS Packages for transferring data from multiple data sources and integrates data based on business logic and to load it in data warehouse.
* Designed ETL using SSIS Packages to reprocess any date data at any time using Reprocess Logic.
* Developing C# scripts in SSIS and automating tasks using C#.
* Maintaining the Log and Audit information in SQL tables, experienced in providing Logging, Error Handling by using Event Handler for SSIS Packages.
* Having knowledge in Dimensional Data Modelling, Cube development and manipulations in SQL Server Analysis Services (SSAS).
* Have knowledge of Big Data Technologies like Hadoop, Cosmos etc.
* Excellent analytical, communication and interpersonal skills.
* Proficient in technical writing and presentations and a good team player.
* Strong investigative and troubleshooting skills.

**ACCOMPLISHMENTS**

* Received highest Customer Satisfaction Index (CSI) of 100% from the customers.
* Received client appreciation on successful completion of Data Integration Project.
* Received client appreciation on successful completion of Global Supplier 3.2 Release.

**WORK HISTORY**

**SQL BI/Power BI Developer**

**Neogenomics Laboratories** - Aliso Viejo, CA 09/2015 - 08/2017

**Project** - Sales Orders BI

**Description** - Sales Orders Project will combine subsets of data from systems containing Sales Orders information and stage it in a format that can be easily interrogated by the business users. The BI solution will provide a consolidated view of the captured Sales Orders information, answering questions. The Users will have the ability to report sales inventory quantity and value in each country, where available.

**Responsibilities:**

* Developed high level test matrix based on business requirements, functional and technical specifications, and development standards for assigned projects/applications.
* Assisted in production OLAP cubes, wrote queries to produce reports using SQL Server 2012, Analysis Services (SSAS) and Reporting service (SSRS)
* Created and deployed cubes in star and snowflake schema. Performed and worked with dimensions, measures, MDX queries.
* Designing current database by adding tables, relationships, creating stored procedures, views and performance tuning of SQL queries and stored procedures.
* Designed, developed, maintained application using VB.Net, C#
* Implemented business logic in the form of custom classes written in C#.
* Developed test cases based on test matrix including test data preparation for Data Completeness, Data Transformations, Data quality, Performance, and scalability.
* Developed Power BI reports and dashboards from multiple data sources using data blending.
* Developed SQL queries /scripts to validate the data such as checking duplicates, null values, truncated values and ensuring correct data aggregations.
* Performed data quality analysis using advanced SQL skills. Performed Count Validation, Dimensional Analysis, Statistical Analysis and Data Quality Validation in Data Migration. Extensive SQL querying on Staging, Data warehouse and Data Mart.
* Explored data in a variety of ways and across multiple visualizations using Power BI. Strategic expertise in design of experiments, data collection, analysis, and visualization

**SQL/BI Developer**

**Tata Consultancy Services** - City, STATE **01/2014 - 01/2015**

**Global Supply Chain (GSC) organization**

The Global Supplier BI of Xerox manages the invoice amount, amount distributed and payment amount. The individual teams under this group GSCB, XE-OMAF, OTC, OCF, NCTH and ACS need reports for analysis and decision making. GSC BI application is to mitigate the complexity by providing a single source instead of multiple sources, cleansed one stop integrated data warehouse that is flexible enough to accommodate new changes and scalable enough to efficiently cater to the growing user community. GSC BI application provides the flexibility for the Xerox business users to take key management decisions for the improvement of their business.

**Responsibilities**

* Requirement analysis. Customer Interaction for requirement clarifications.
* Planning the estimates. Hence assigning the user stories to the team for development and unit testing.
* Implementation and delivery of MSBI platform solutions to develop and deploy ETL, analytical, reporting on SQL Server 2008 using SSAS, SSIS, SSRS.
* Developed custom reports and deployed them on server using Power BI.
* Developed Business logic layer by implementing Object Oriented Programming languages (OOPS) concepts abstraction, encapsulation, inheritance, polymorphism in C#.
* Designed and developed various abstract classes, interfaces, classes to construct the business logic using C#, Entity Framework and SQL.
* Experience in providing Logging, Error handling by using Event Handler, and Custom Logging for SSIS Packages.
* Experienced in SDLC life cycle for Design, Development and Staging phases of the projects with support of Dataflow, Process Models, and E-R Diagrams.
* Maintained log information in Text file to tracking Errors and recording package execution status. Created Configurations, Checkpoints and Breakpoints.
* Designed ad-hoc reports in excel power pivot and shared them using Power BI to the decision makers for strategic planning
* Understanding OLAP process for changing and maintaining the Warehouse Optimizing Dimensions, Hierarchies and adding the Aggregations to the Cube.
* Created Data Warehouse schema to deploy fact and dimension table and defined Referenced relationships with the measure groups and fact tables.
* Understood the existing ETL and relational database framework and Scheduled Packages using SQL Server Agent Jobs.
* Perform Preventive maintenance activities like causal analysis, restructuring program codes, data problems resolution and performance tuning.
* Come up with different test scenarios for automating Unit test cases, Build verification test cases and Environment test cases.
* Unit testing, fixing bugs.
* Giving application demos to customer and other teams at every sprint end.
* Generated ad-hoc reports in Excel Power Pivot and sheared them using Power BI to the decision makers for strategic planning.
* Utilized Power Query in Power BI to Pivot and Un-pivot the data model for data cleansing and data massaging.
* Store all source code in the Team Foundation Server (TFS) and update development status in the TFS timely.

**SQL SSIS/SSRS/BI DEVELOPER ANALYST 01/2012 - 01/2014**  
**Commercial Bank of Ethiopia**, City, STATE

Responsibilities:

* Created DDL scripts to create database schema and database objects like tables, stored procedures, views, functions, and triggers using T- SQL.
* Created Database Objects - Tables, Indexes, Views, User defined functions, Cursors, Triggers, Stored Procedure, and Constraints.
* Developed and optimized database structures, stored procedures, Dynamic Management views, DDL triggers and user-defined functions.
* Implemented database management techniques that include backup/restore, import/export and generated scripts.
* Implementing Backup and recovery process and Replication process.
* Act as a liaison between various other departments and Reporting & Analysis for report requests in a timely manner.
* Maintain SQL Server database, including creating and modifying tables, Views, and Stored Procedures.

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**SKILLS**

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| **Programming Languages** - Python, Java, C#, C  **Python Libraries** - NumPy, Matplotlib, Pandas  **Algorithms** - Linear Regression, Logistic Regression, Decision Tree, SVM, Naive Bayes, KNN, K-Means Database - Oracle, MySQL, HBase, Mongo DB  **Operating Systems** - Windows, CentOS, Debian, Ubuntu | **Tools and Software** - PyCharm, Eclipse, Jira, HLM, GIT, SVN,Cosmos, Microsoft SQL Server data tools, SQL server BID Studio 2008, SQL Server Management Studio 2012/2008, SharePoint Server 2010,Performance Point Server 2010, Power BI  **Hadoop Ecosystems**- HDFS, MapReduce, PIG,  Ambari, HBase, Zookeeper, Hive, Sqoop, Oozie and Flume. |
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**ACADEMIC PROJECTS**

**Sentiment Analysis of Twitter data using Naive-Bayes Classifier**

Analyzed the tweets regarding the top candidates in the 2016 election to predict the public sentiments towards each presidential candidate. The project attempts to solve the real-world problem of understanding sentiment towards election candidates based off the public live opinion and emotions rather than off of smaller, localized polls typically done by mainstream media corporations.  
**Organization Manager**

Organization Manager is a Web-based application with data feeds to/from other third-party or home Office applications, including CRM applications. Organization Manager Application enables users to manage Company structure, Employee profile information and assignment to Sales Areas, Realignment Lists/Rules, Products, Instructions, Jobs and Scenarios for data processing and Data Loading. In this project by using Sqoop data is migrated from Oracle DB and MySQL DB which is provided by IMS Health, there are two data sets one is master data and another one patient's demographic data, in master data we have patient details and in demographic data we have prescription details and disease details. Some transformations on those two data sets and created hive tables and HBase tables, on top of the tables and used elastic search and the results given to the organization manager.  
**Restaurant Management System- Advanced Management system**

Designed a database which held information on restaurants, its features, chefs, customer details and customer reviews. Integrated with SSRS for providing visualization. Performed normalization, data generation, loading, clustering, indexing, and partitioning.