**Sekhon RESUME**

Present Local- CA Relocation- Bay Area Only



**PROFESSIONAL SUMMARY:**

* Over 6 **years** of extensive **IT experience** in **Software Development, Integration, Implementation** and **Maintenance of Business Intelligence applications** along with strong experience of **data visualization**
* Expertise in performing development activities from **gathering requirements** and **designing solutions** including **analysis, modeling, design**, and **development of reports and dashboards for analytics and reporting applications**
* Hands on **Tableau desktop 8.0/8.2/9.0/9.3/10.3/10.4, Tableau server** and **Tableau Reader**
* Extensive experience working with Tableau Software as a **dashboard developer**
* Extensive experience creating **canned and ad-hoc reports** in Tableau Desktop.
* Employed various Tableau functionalities like **Tableau Extracts, Parameters, Filters, Contexts, Data Source Filters, Actions, Functions, Trends, Sets, Groups, Cubes, Calculations** and **Maps** etc.,
* Experience in creating different visualizations using **Bars, Lines and Pies, Maps, Scatter plots, Gantt charts, Bubbles, Histograms, Bullets, Heat maps** and **Highlight tables**
* Practical understanding of the **Data Modeling Dimensional Relational concepts** like **Star-Schema Modeling, Snowflake Schema Modeling, Fact** and **Dimension tables**
* Mastered in **joining** tables, multiple data connections using **blending**, worked on **Data Extracts** and **managing queries.**
* Built interactive dashboard using techniques like **guided analytics** and **visual best practices** provided by Tableau.
* Worked on **Tableau administration tasks** such as **publishing workbooks, setting permissions, managing ownerships, working with sites**, that allowed end users to understand the data on the fly with the usage of **quick filters** for on-demand needed information.
* **Scheduled data refresh** on Tableau Server for weekly and monthly increments based on business change to ensure that the views and dashboards were displaying the changed data accurately.
* Used **multiple Tableau data sources** (. tds) from excel, CSV, text files and RDBMS (SQL Server) as source systems for workbook generation using **Export/Live connection** and methodologies.
* Improved Reports performance in Tableau using **LOD expressions** and **context filters**
* Implemented **row and column level security**.
* Defined and created procedures to **install Tableau desktop** in silent mode and best practices for **Tableau report development.**
* Involved in creating **Stored Procedures, tables,** and **views for applications**
* Involved in creation and updates of several **SQL Index, Views, Complex Stored Procedures, triggers** and **appropriate User defined functions**
* Hands-on development assisting users in creating and modifying worksheets and data visualization dashboards
* Working extensively on connecting Tableau with cloud (Amazon EMR), doing POC, and testing different data sources within the cloud
* Enhancing my knowledge on **Alteryx**

**TECHNICAL SKILLS:**

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| --- | --- |
| **Operating Systems** | *Windows, Mac, LINUX* |
| **Languages** | *C, C++, SQL, Matlab* |
| **Tools** | *Tableau Desktop v7/v8/v9/V10, Tableau Server v7/v8/V9/V10, Alteryx, JIRA, Kiel uVision, LabVIEW, Matlab/Simulink* |
| **Databases** | *AWS, IBM DB2, Oracle 11.2, Hadoop, Teradata 13, SQL server, MS Access* |

**PROFFESIONAL EXPERIENCE:**



**Client: The Vanguard Group, Malvern, PA** *Dec’ 2016- Present*

**Sr. Tableau Developer**

**Responsibilities:**

* Created different KPI's based on marketing, operations, and customers Analyzed KPI scoreboard and compared KPI trends.
* Used interactive Client Dashboards to monitor Client counts, their demographics, balances and assets using bar charts, donut charts, Heat maps, Box and Whisker charts, Scatter Plots, Geographic Map, Cross tabs, Histograms etc.
* Tableau helped the team to get deep insights into different funds and accounts like TA, VBA and VBS accounts and Client types by analyzing YTD and MTD changes, Top and bottom funds, penetration Clients and Assets for different Products and Service Segments.
* Monitored Retail Digital Dashboards to understand client activity, engagement and service adoption
* Created individual dashboards to monitor different services and client satisfaction like PAS Dashboard, ETF Dashboard etc
* Helped in identifying right audience for campaign launches
* Created complex formulas and calculations to do data preparation
* Created a Project Tracker for Retail analytics Team
* Created one single tableau portal on Tableau Server to access all different dashboards at one place and embedded this portal on SharePoint.
* **Added new functionalities to the Tableau dashboard** like one “Reset ALL” filter option, Quick Table of Contents letting two workbooks combine in one dashboard, Zoom In/out Timelines for individual filters, switching chart types/two sheets etc.
* Created **different chart types** like Sparkline charts with KPIs indicated, Waffle chart, Radial Tree map, Scatter plot, Sankey diagram etc.
* **Amazon Web Services** is the new adoption in the company, so helping the data lab team to test Adobe AWS data with Tableau using AWS EMR data source.
* Migrating the workbooks from V9.3 Tableau server to cloud.
* Followed JIRA Scrum methodology, met the challenges and produced a value-added Tableau Product.
* Created users, groups, and domains from Active Directory and created different License Levels for each user.
* Designed and Optimized Data Connections, Data Extracts, Schedules for Background Tasks and Incremental Refresh for the weekly and monthly dashboard reports on Tableau Server.
* Blended data from multiple databases into one report by selecting primary keys from each database for data validation
* Running What-If analyses for customers trying to grasp the impact of investment decisions
* Advocate the use of Tableau solution and help educate business users to facilitate early adoption of the tool.

**Environment:** Tableau 10.3/9.3, Amazon EMR, IBM BD2, Oracle 11.2, Hadoop, Adobe analytics, JIRA, MS Excel.

**Client: Santander Bank, Holmdel, NJ** *Jun’ 2016-Dec’2016*

**Tableau Developer**

**Responsibilities:**

* Involved in end to end implementation and enhancements on Mobile Banking App data starting from requirement gathering and dashboards development in Tableau Desktop.
* Studied and analyzed similar applications and brainstormed with business team to gather effective requirements for the system along with dashboard development.
* Created numerous dashboards in Tableau Desktop based on the data collected from Mobile Banking App by importing and blending data from MS Excel and CSV files.
* Developed Geo/Area Maps to show details on which states are most connected using the App vs. the least states.
* Created Bar Charts which is complied with data sets and added trend lines and forecasting on future usage of the Mobile App.
* Created Crosstab’s to display underlying data based on various graphs and charts created for further data analysis.
* Complied interactive dashboards in Tableau Desktop and published them to Tableau Server which allowed story telling behind the Mobile App usage with Quick Filters for on demand needed information with just a click of a button.
* Developed and reviewed SQL queries with use of joins clauses (inner, left, right) in Tableau Desktop to validate static and dynamic data for data validation.
* Performed data analysis on daily, weekly, and monthly scheduled refresh of data based on that business or system change that have happened to ensure that the developed dashboards are displaying accurate and up-to-date live data and sent those into production after editing.
* Participated in weekly meetings, reviews, and user group meeting as well as communicating with stakeholders and business groups

**Environment: Tableau Desktop 8.2, Tableau server / Administrator, Teradata 13, SQL Server 2008**



**California State University, Fresno, USA Aug 2014-May 2016**

● **CIGS thin film Solar Cells (Jan 2016 -May 2016)**

This project focused on finding the electrical properties of CIGS Thin Film Solar Cells (CIGS). Different layers of CIGS solar cells were studied and their effect on the efficiency was observed. Efforts were made to maximize the efficiency of cell.

Tools: SILVACO TCAD

**USE OF TABLEAU:**

* Extensively used tableau to do data analysis for various Labs and Projects
* Guided a friend in her testing and data analysis for her project for data on “Nutrition in soil”

**● ZigBee Transmitter (Nov 2014- March 2015) *Published***

**(2015 IEEE International Symposium on Signal Processing and Information Technology (ISSPIT), Abu Dhabi, 2015, pp. 297-300)**

The focus of the project was to design a ZigBee transmitter using Verilog for IoT applications. This project consisted of digital design and Verilog-HDL simulation of the Cyclic Redundancy Check and Bit-to-Symbol block of the ZigBee transmitter.

Tools: Verilog HDL



**Client: Advance Technologies Pvt. Ltd INDIA** *Jan’ 2013-Nov’ 2013*

**Role: Sr. SQL Developer**

**Responsibilities:**

* Plan, design, and implement application database code objects such as stored procedures and views.
* Provide database coding to support business applications using SQL
* Generated server side SQL scripts for data manipulation and validation and materialized views for remote instances.
* Developed SQL triggers and master tables for automatic creation of primary keys
* Created **indexes** on the tables for faster retrieval of the data to enhance database **performance**
* Perform quality assurance and testing of SQL server environment.
* Develop new processes to facilitate import and normalization, including data files for counterparties.
* Ensure best practices are applied and integrity of data is maintain through security, documentation, and change management.
* Performed development activities from gathering requirements and designing solutions, through developing code / reports, to testing and release / deployment
* Trained and mentored EBI team, users and assisted and coached them in material, processes and delivery of training, training standards and best practices.
* Interacted with report owners to establish/clarify their requirements and developed report specifications.

**Environment:**Microsoft, Linux, Oracle 9i / 8i, SQL Server 2005, MS Access 2010

**Client: Advance Technologies Pvt, Ltd. INDIA** *Feb’ 2012- Jul’ 2012*

***Intern, Embedded Engineer***

**Project 1:** Bluetooth based Home Automation

This project targeted at controlling electrical appliances like lights, doors, fans etc., via Home Automation devices and set up the controlling actions in the mobile. Different mobile phones were used to test the Bluetooth client which proved its portability and wide compatibility.

**Environment:** Programming in C, PIC18F452

**Project 2:** Automatic Car Parking System

This project was based on an automatic car parking indicator system in which infrared Transmitters and Receivers are used for each parking slot to know that which slot is empty and which is full.

**Environment:** Programming in C++, AVR

**EDUCATION**



**● MS in Electrical Engineering | California State University-Fresno, California, USA| Aug 2014 - May 2016**

**● BS in Electronics and Communication Engineering| Eternal University, India | Aug 2010 - June 2014**