

Jessica Claire

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PROFESSIONAL SUMMARY

- Certified Python Programmer Tibco Spotfire Architect/Engineer with extensive years of RDBMS programming covering all aspects of back-end processes - relational data model, dimensional data model, OLTP, OLAP, Cubes, SQL/ETL and testing. Strong understanding of Spotfire API, IronPython/Python scripting, TERR/R programming, C#/NET SDK extensions. Great professional attitude and communication skills with efficiency in SDLC methodologies - Agile, RUP applied with team-player mentality. Strong ability to use Tibco Spotfire architectural components - Web Player Server, Spotfire Server, Information Designer, Library Administration, Administration Manager, Spotfire database, In-memory/In-db storage.

SKILLS

- Note
- IronPython/Python scripting
- over Spotfire API
- Dynamic visuals, d3.js visuals, User interactions, Web services (RESTful services), File I/O, Dynamic Images, Text Area dynamism, RDBMS operations, Custom python modules, Tagging Analysis, Color customization, Dynamic data tables, Algorithms, Guided-analysis, Data security, Parameterized-script analysis, Log-monitoring, Data manipulation, DXP state manipulation
- Ability to innovate and improvise new designs techniques.
- Spotfire
- TERR-platform/R programming
- TERR Data Functions, Expression Functions, RStudio
- Ability to use R-scripts for analytics.
- DataWarehouse
- Conceptual, Logical and Physical Data Models Entity/Attribute Relationships (Cardinality/ Optionality) and Dependencies OLTP and OLAP
- Staging and ODS Maintenance
- Relational Model and Normalization
- Analytical SQL, Programming SQL
- Ability to work in design, data quality, maintenance aspects of a DataWarehouse.
- Tibco Spotfire Core Techniques
- On-Demand Load, Custom Expressions/ Calculated Columns Dynamic Visualizations, Information Links
- User/Group Administration
- Application Profiler
- Document/DataTable/Column Properties
- Data Functions
- IronPython Scripting and SDK Customization
- Geo-Analysis (Geo-Coding and Coordinate Matrix Systems)
- HTML, CSS, JAVASCRIPT and d3.js visuals
- Ability to create appealing
- Visualizations and DXP's
- Programming
- Object-orientation (JAVA/C#)
- Scripting (Python, R)
- RDBMS (SQL, Programming SQL)
- Ability to work with various
- programming concepts. Statistical Tools:
- R, Python, Tibco Spotfire
- Database:
- Oracle | SQL Server | Teradata | MS Access | Hadoop/HDFS | NoSQL (HBase)
- Operating Systems:
- UNIX WINDOWS XP/1998/2000/7 HTML | CSS | JavaScript | J2EE JAVA | REST API
- Programs:
- Microsoft Office Suite (Word, Excel, PowerPoint, Access and Outlook), MS Visio

WORK HISTORY

TIBCO SPOTFIRE DEVELOPER

05/2015 to CURRENT

Vmly&R | Hoboken, NJ

- The project was on clinical data trials data captured via EDC (Electronic Data Capture).
- Batch processing via Oracle Clinical engine and analysis via Tibco Spotfire platform and Tableau reporting were the key features of the project.
- Database locks for interims, last data generated, patient visits were some of the key data attributes.
- Python, JAVA, SQL and R were the key environment also including Oracle, Informatica, DB2, DB Visualizer, MS Excel, XML, Agile, Macros VBA, Business Objects, MS Office Suite, MS SharePoint, Mainframe Technology, AutoSys, and SAS files.
- Created BI specifications for clinical trials database lock metrics - LDG (last data generated), FPLV (first patient last visits), Interim database locks, Interim Data Cut Offs and more.
- Created Job file (in XML module) to automate the reporting tasks.
- Reviewed EDC (Electronic Data Capture) process of gathering clinical trials data.
- Created Information Links with prompts, on-demand loads, transformations, joins, parameterizations connecting to data sources and files.
- Designed folders in Spotfire Library, administered users/groups, analyzed back-end spotfire database, tracked memory/CPU usages of Spotfire Server and Web-Player Server.
- Incorporated Custom Python Modules into Spotfire Server to utilize Python Library in full for custom functionalities.
- Used d3.js (Data-Driven Documents) for interactive and appealing visuals utilizing HTML Text Area features - JAVASCRIPT, HTML, CSS and IronPython.
- Designed specifications for custom functionalities and dynamic visualizations within DXP's.
- Manipulated data tables, columns, rows, cell values, document properties, document metadata, filters, markings using IronPython to achieve interactions.
- Created specifications for data transformation - information links, custom expressions, calculated columns, data wrangling with python, R scripts with TERR, advanced custom expressions (THEN/ OVER).
- Worked with statisticians to utilize R scripts and incorporate with Spotfire's TERR engine for writing data functions and expression functions.

TIBCO SPOTFIRE DEVELOPER

08/2013 to 04/2015

Deutsche Bank | City, STATE

- The analytics project involved financial data relevant to auditing and accounting.
- The back-end framework involved Hortonworks based platform comprising of Hadoop batch processing of Big Data.
- The major languages involved Pig Latin and Apache Hive.
- Analytics platform involved Tibco Spotfire with Python customization and Information Links import.
- The key metrics involved financial data entities.
- Other sources included Sql Server relational data plus various file formats incoming from external clients.
- Tracked data quality issues and reporting requirements in JIRA tool and Quality Center.
- Modified the existing database models for both relational and dimensional databases.
- Created conceptual, logical and physical data models to depict the level of granularity of measures and distribution of dimensions.
- Analyzed feasibility of Hadoop-like Architecture to analyze high volume of data as per Big Data Analytics concepts.
- Used standalone Hadoop mode to run initial MapReduce job.
- Created specifications for data transfer in HDFS from sFTP, FTP, HTTP, SMTP web servers.
- Created Technical specification for running Hadoop/MapReduce jobs via Pig Latin and Apache Hive in fully distributed mode.
- Assessed the feasibility of NoSQL storage via HBase.
- Created specifications for real-time streaming processing using Apache Kafka and Apache Storm.
- Created specifications for HDFS architecture and file/folder architecture.
- Reviewed open source Apache Hadoop projects for information and knowledge transfer.
- Used Linux Command Line Interface to run Hadoop commands, Grunt Shell scripts to run PIG/SQL scripts, GREP commands to query plain text data, Linux shell commands to untar files in the Database ecosystem.
- Created Information Links to load data on demand controlled by document properties, expressions, limiting and parameterization.
- Used JavaScript d3 library to create visualizations sourcing from JSON file formats.
- Created Map charts comprising of Map Layers, Feature Layers based on Geo-coding tables and Coordinate Matrix Systems.
- Wrote IronPython scripts to customize dashboards by implementation of Tagging Analysis, Document Properties manipulation, Visualization properties manipulation, Table manipulation and file-data manipulation.
- Used HTML and CSS along with JavaScript features to design Text Areas.
- Used Web Player Configuration to control initial state of dashboards.
- Used Marking and Filtering selection via IronPython scripts to automate the functionalities of dashboards.
- Tested Usage Analysis comprising of memory usage, CPU usage, Network usage, User/Group activities and Library activities.
- Created Calculated columns and Custom expressions to manipulate data loaded in Spotfire.
- Wrote Hive QL to load data on demand from Hortonworks Hive Metastore.

SOTFIRE DEVELOPER

2011 to 07/2013

L'OREAL CORPORATE | City, STATE

- Project's primary goal was to convert all the SSAS cube reports in Spotfire dashboards and visualizations.
- Total number of cubes was around 30 and the dashboards covered metrics related to production, inventory, customer segmentation, and more.
- In-built Spotfire features were used along with customization via IronPython scripts.
- Created non-spatial geographical distribution charts and map-charts to display metrics via geo-coding and co-ordinates mapping.
- Used IronPython scripts to loop through filters, markings, visuals and data columns and build customized functionalities within spotfire documents.
- Used Spotfire Library Administrator to manage folders, .dpx files, information links, and connectors.
- Installed and configured Sql Server connector, SAP HANA connector, SSAS connector and others to create In-db connections.
- Used Spotfire Automation Services to create automated jobs via XML builds and scheduled it on daily, weekly basis.
- Managed users, groups, privileges and security of spotfire environment using LDAP-Spotfire fusion.
- Developed Custom Data Source via SDK module for Google Analytics Connection.
- Wrote Custom Expressions for visualization axes, calculated columns, property controls and limit expressions.
- Created custom Text Areas via HTML scripts and JAVASCRIPTS.
- Used Advanced Data Services (ADS) over Cisco Composite Servers to create data virtualization layers.
- Designed Information Links to mimic in-memory connections.

DATA ANALYST

10/2009 to 11/2010

T.Rowe Price | City, STATE

- The Compliance Data Quality Project was to assess and define the gaps in quality of Equities/ Securities/Trades data.
- Monitored weekly AutoSys Jobs in Dev, Qual and PROD regions.
- Created Sprint Logs for Agile mode of work.
- Created Job file (in XML module) to automate the reporting tasks.
- Created Technical Specifications for modification of Informatica mappings.
- Created Technical specification to list data profile including constraints, indexes, views, sequences, synonyms, cardinality/optionality, measures (metrics), dimensions, referential integrity, aggregations, calculations, transformations, statistical modeling in order to pre-design data load from source to target.
- Monitored Informatica session logs in order to assess and rectify data cycle errors to address data quality issues.
- Assessed existing data marts and designed bridge tables to connect different data tables.
- Modified Source Qualifier queries in Informatica mappings.
- Used Analytic Functions, Statistical Functions via SQL to analyze and process the data at aggregate level including roll-ups, cubes, grouping sets.
- Used DML and DDL statements via SQL to manipulate and define data sets.
- Used joins, subqueries and set operators via SQL to cross- analyze data across multiple tables.
- Used Substitute Functions, Character Functions, Numeric Functions, Conversion Functions, and Date-Time Functions, Pivots, Hierarchies, Aggregation via SQL to modify data column values.
- Used Data Security languages and Data Transaction Control languages via SQL.
- Written test strategies, test cases to asses Informatica code changes including initial code debug.
- Converted Business Objects Ad-hoc reports to dashboards and visualizations (pie chart, bar chart, pivots, line charts, cross-tables, and heat-map).
- Maintained source data flow using Excel Macros, Flat Files, Relational Tables.
- Accessed files from Mainframe System and used in Informatica ETL.
- Created Technical Specification for 'Insert Else Update' Process as part of Slowly Changing Dimensions.
- Used Data Profiling Services in Sql Server 2008 to document Column Null Ratio Profile, Column Statistics Profile, Column Value Distribution Profile, Column Length Distribution Profile, and Column Pattern Profile.
- Reviewed Informatica PowerCenter Designer mappings, Informatica Workflow Manager for workflows/ sessions, Autosys Job Scheduling, Informatica Workflow Monitor for session logs.

JAVA DEVELOPER/PYTHON PROGRAMMER

07/2008 to 10/2009

JP MORGAN CHASE | City, STATE

- The project involved creating a UI application to be used for mortgage line of business.
- JAVA, PYTHON and SQL were the three key frameworks.
- Used JAVA fundamentals and core JAVA techniques to design and maintain application codes.
- Used JAVA Hibernate and JSP principles to create front-end User Interface and communication layer to the RDBMS.
- Used Python data processing logics to derive analytical data from transactional sources for regulatory submission.
- Used SQL to validate data quality and accuracy at the back-end.

EDUCATION

Master of Science | INFORMATATION TECHNOLOGY

AUG 2015

GOLDEY BEACOM COLLEGE, WILMINGTON, DE

Bachelor of Science | Technology

SEP 2007

KATHMANDU UNIVERSITY, DHULIKHEL, NEPAL