JESSICA CLAIRE

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PROFESSIONAL SUMMARY

- Over all 4+ years of IT experience in Data Engineering, Analytics and
  Software development for Banking and Retail customers.
- Strong knowledge on Cloud technologies including AWS - EC2, EMR, S3, Lambda, SQS, SNS.
- **AWS Certified Solutions Architect - Associate.**
- Strong Working exposure with ETL, Data Warehousing with strong knowledge on Dimensional modeling on MS SQL Server, Snowflake.
- Strong programming knowledge of Java 7, Java 8 and experience with
  scripting languages - Python 3.
- Strong experience in Python libraries - Numpy, Pandas, Matplotlib.
- Knowledge in data Engineering technologies including Hadoop 2, Spark , Elastic Map Reduce.
- Working Experience in cloud technologies including AWS S3, EMR, EC2,
  Athena.
- Proficient in performing EDA (Exploratory data analysis), Root Cause Analysis, Impact Analysis on large volume of datasets.
- Experienced in querying Snowflake, Oracle, Redshift, MS SQL server
  databases for OLTP and OLAP. Solid understanding of RDBMS database concepts including performance tuning and Query optimization
- Advanced working SQL knowledge and experience working with relational databases, query optimization (SQL) as well as working
  familiarity with a variety of databases.
- Strong analytic skills related to working with unstructured datasets. Experience with building processes supporting data transformation,
  data structures, metadata, dependency and workload management.
- Experience in complete Software Development Life Cycle (SDLC) involving Analysis, Design, Development and Testing.
- Experience performing root cause analysis on internal and external data
  and processes to answer specific business questions.
- Working knowledge of message queuing, stream processing, and highly
  scalable 'big data' data stores. Experience creating APIs and interfacing with front-end systems Experience with stream-processing systems
  using PySpark.
- Strong knowledge of data structures, algorithms, operating systems, and distributed systems fundamentals.

SKILLS

Snowflake , Python 3 , Pandas, Numpy, SQL, No SQL.   AWS- EC2, S3, Glue , Spark with EMR.
MS SQL Server , Redshift   Informatica Power Centre 9.5, IBM Cognos, Statistica.
Java 7, Java 8, Spring.   Windows, Linux .

WORK HISTORY

Data Engineer, 07/2019 - Current
Motion Recruitment – Mckinney, TX

- Working currently as Data Engineer in Data Risk Management Team in Auto Finance Division of Financial Client.
- Responsible for assessing and improving the Quality of Customer Data.
  Worked on end-to-end data quality process setup on AWS for entire Financial Auto Loans division.
- Worked on data profiling and created Logical Datasets on Snowflake to administer quality monitoring process for various data elements.
- Worked on creating Logical dataset scripts on snowflake using SQL Joins, Aggregations, transformations, Window functions .
- Worked on developing ETL pipelines on S3 parquet files on data lake using AWS Glue .
- Performed data quality issue analysis using Snow SQL by building analytical queries on Snowflake.
- Analyzed data quality issues through Exploratory data analysis (EDA) using SQL , Python and Pandas.
- Achieved 400% growth in data quality check creation process by creating Rule Automaton tool in Python.
- Created and executed CRON jobs to automate the execution process of mass data quality monitoring of datasets on Ec2 instances with EBS
  volumes attached.
- As a part of new producer request review , built a python script that validates the source to target mappings and automates the lineage
  checks to some extent.
- Worked on metadata management including data classification and designing Quality rules for each elements.
- Regulatory Reporting. Streamlined the process of stress test regulatory reporting by developing a detailed process tracker in Excel and
  Python.
- Reconciled monthly stress test and quarterly financial reports in order to ensure regulatory compliance.
- Worked on building Python scripts to generate heat maps to perform issue and root cause analysis for data quality report failures.
- Involved in the code migration of quality monitoring tool from AWS EC2 to AWS lambda inorder to reduce the costs incurred due to
  reserved EC2 instances.
- Environment: Python, Snow SQL, Pandas, Numpy, Matplotlib, seaborn, Excel, Tableau, AWS EC2, AWS ,S3, AWS Lambda , AWS EC2,
  S3, Glue.
  Lambda, OneNote(Jupyter Notebook),Spyder, Anaconda , Nebula, Linux Shell Scripting

Software Engineering Analyst , 01/2016 - 04/2016
Accenture – Columbus, OH

- Worked on SLB logistics application to do shipment and field logistics of
  Schlumberger.
- Contributed to the development and enhancement of data warehouses and marts for modules that are used by SLB business users.
- Involved in end to end ETL process by cleaning, wrangling and exploring
  the raw data and building analytical warehouses in MS SQL Server using
  SSIS and Informatica Power Centre 9.5.1.
- Worked on building reports using IBM Cognos.
- Worked agile in a team of 6 members and contributed to the backend
  development of application .
- Gained expertise in writing SQL queries against MSSQL server with query optimization and Performance tuning techniques.
- Performed data analysis using Python and involved in critical problem
  solving situation and troubleshooting abilities.
- Leveraged various python modules to enhance the data validation, testing and automated daily processes.
- Skillset : MS SQL Server 2012, SSIS , Informatica Power Centre 9.5.1,
  Cognos, Excel, SSMS.

ETL Developer, 07/2015 - 01/2016
Jpmorgan Chase & Co. – Gastonia, NC

- Project- Claims Fraud Analytics- Insurance Client.
  Claims Fraud Analytics project aims to identify the fraudulent claims from the information available from internal and external sources.
- Responsibilities:
  Involved in gathering, analyzing and documenting business requirements and functional requirements and data specifications from users
  and transformed them into technical specifications.
- Extensively worked on data extraction, Transformation and loading data
  from various sources like SQL Server, NETEZZA, Flat files, XML files, CSV
  files.
- Developed the Informatica Mappings by using transformations like UDT,
  Web service consumer, TCL, Xml Generator, Xml Parser, Aggregator,
  sorter, expression, Joiner, Union, SQL overrides usage in Lookups (both
  connected as well as un connected), source filter usage in Source
  qualifiers, and data flow management into multiple targets using router.
- Used IDQ in cleaning the data by using Address Doctor, Parser,
  Standardizer Transformations. Created Stored Procedures in PL/SQL.
- Strong skills in Data Analysis, Data Requirement Analysis and Data
  Mapping for ETL processes.
- Extensive use of statistical tool Statistica for Text mining and scoring.
  Used debugger in identifying bugs in existing mappings by analyzing data flow, evaluating transformations.
- Created prompt, list and chart reports using IBM Cognos Report Studio.
  Identified performance bottlenecks and Involved in performance tuning of sources, targets, mappings, transformations and sessions to
  optimize
  session performance.
- Tools: Informatica 9.5.1, MS SQL Server2008, Netezza, Cognos 8, Statistica.

Java Developer, 08/2013 - 06/2015
Infostretch – Bethesda, MD
Wipro Technologies - Hyderabad, Andhra Pradesh, India
FedEX-FLM-FSNG-ADM :

- Worked with Fedex client for Fedex Locker Management System (FLMS) to develop RESTful services to the Fedex kiosk(FSNG) in
  request-response style.
- Extensive Involvement in Requirement Analysis and system
  implementation, SDLC phases.
- Contributed to a team of 6 in an agile environment in developing new interfaces for the FLMS application.
- Contributed in developing RESTful services and business logic in the
  backend of the FLMS portal to serve requests of several Fedex Ship and
  Get Kiosk applications on front end using Spring REST , Spring MVC.
- Worked on Object Relation mapping technologies like JPA(Hibernate) to
  develop the Data Access Layer and Repositories layer.
- Worked on RabbitMQ Message Queueing System to integrate FLMS
  application with Cargo applications and other downstream applications to receive parcel data in real time and batches.
- Worked on developing web services to interact with cross platform
  applications (FSNG) to exchange the data in the form of XML and SOAP
  protocol for consuming WCF services
- Implemented OLTP systems to the backend by creating complex SQL
  Queries, Reusable Triggers, Functions, Stored procedures using PL/SQL.
- Worked in pair programming, Code reviewing and Debugging.
- Involved in unit test development using Mockito and Bug Fixing.
- Involved in UAT and production deployments and support activities.
  Tools & Technologies: Java SE 7, Spring 4.0, Spring REST, Spring
  JDBC,Hibernate , Oracle 11g, Maven, Eclipse, SVN, Bugzilla.

EDUCATION

Master of Science: Computer Science, 05/2019
New Jersey Institute of Technology - Newark, NJ

Master of Science: Electrical Engineering, 06/2013
Sastra University - Thanjavur, TamilNadu, India

CERTIFICATIONS

AWS Certified Solutions Architect Associate.
https://www.youracclaim.com/badges/d6cacb44-4385-4d0d-a236-05795a45e069/public_url