FAITUS JELINE JOSEPH

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SUMMARY

- **Data Engineer** with more than 10 years of professional experience in Software Development Life Cycle (SDLC) using **Informatica PowerCenter, Python** & **Big data** technologies with different domain backgrounds.
- Experience in Python Data Analysis using **NumPy** and **Pandas**
- Experience in Python Data Visualization using **Matplotlib** and **Seaborn**
- Creating **REST APIs** using Python and **Django REST Framework**
- Experience with Predictive analysis using **Linear Regression** Machine Learning algorithm using Python
- Experience in **Oracle SQL** and **PL/SQL** coding and good knowledge of using database tools like SQL Developer, Informatica PowerCenter.
- Experience in creating tables and materialized views in **NoSQL MongoDB and Apache Cassandra Keyspace**
- Strong understanding of OLAP/OLTP systems, Dimensional Modeling using star and snowflake schema, Data warehouse concepts and ETL.
- Creating **Docker** containers and downloading Docker images
- Experience in **UNIX** Bash Shell Scripting using Command line.
- Experience is building applications in **Python** using and OOPS concepts.

EDUCATION

- Professional Certificate in Data Engineering from Massachusetts Institute of Technology (MIT) (September 2021 to May 2022)
- Bachelor of Engineering in Computer Science and Engineering, from Anna University, 2005

SKILL SUMMARY

Programming Languages	JAVA, Python, IBM Mainframe
Databases	Netezza, MongoDB, Teradata, Oracle, SQL Server, Apache Cassandra, IBM DB2, PL/SQL, MySQL, Redis
Big Data Technologies	HDFS, Apache Airflow, Kafka, Apache Spark (PySpark), Hadoop, Sqoop, Flume & Apache Hive
Web application Tools	Strapi, Django REST Framework, Flask, Docker, Postman, Swagger
Data Warehousing Tools	Business Objects, OBIEE, MicroStrategy, Informatica Power Center, Cognos
Amazon Web Services (AWS)	EC2, S3, Lambda, IAM, RDS, CloudFormation
Test Management Tools	Application Lifecycle Management, JIRA
Log monitoring tools	AWS CloudWatch, Splunk, Grafana

TECHNICAL CERTIFICATIONS

- AWS Certified Cloud Practitioner (October 2020)
- Cognizant Certified Data Scientist (August 2020)
- Oracle Database 11g: Program with PL/SQL (August 2019)

Projects developed as part of Professional Certification in Data Engineering at Massachusetts Institute of Technology (MIT)

- House price data prediction using Machine Learning Linear Regression Algorithm and visualizing the data using Pandas, Numpy, Matplotlib and Seaborn Python libraries.
- ETL pipeline Implementation using Monthly Retail Trade Report data and performed Visualization using Python Libraries. Data is available as Excel spreadsheet format which is converted to CSV format and loaded into MySQL
- Created Airline reservation application API using Strapi Administration and sending GET, POST, DELTE request to the application using Postman and populate the data in web application.
- Created web application with Client Server Architecture using Flask and managing the cookies using Flask built in functionalities. Using Swagger to interface with API.
- Implemented the Change Data Capture (CDC) by initializing the MySQL, MongoDB, Redis and Cassandra containers using Docker and propagating the changes from MySQL to MongoDB; MongoDB to Redis; Redis to Casandra databases.

PROFESSIONAL EXPERIENCE

Client: Blue Shield of California, Oakland, CA   **Nov 2014 to Till Date**
Role: Data Engineer

- Translating business requirements into mappings to load data into Data Warehouse
- Responsible for designing, developing, testing & implementing data warehouse and all related ETL functions.
- Designing and developing data ingestion pipeline and data visualization
- Writing complex SQL queries to extract, transform and load data from external sources and data warehouses
- Developing, maintaining, and managing advanced reporting, analytics, dashboards, and other BI solutions

Client: MassMutual Financial Group, Enfield, CT   **Nov 2012 – Nov 2013**
Role: ETL Informatica Developer

- Extensive experience in Dimensional modelling for designing DataMart and Dimension tables using various DDL and DML statements.
- Experience in ETL Development using Oracle, Teradata 13.11, Informatica 9.1.0, OBIEE 11G
- Worked on requirements analysis and ETL changes for change requests, modifications and defects raised by business users and the State.

- Created indexes and partitioned fact tables and used hints on the tables for faster retrieval of the data to enhance database performance.
- Wrote complex SQL queries on Teradata and Oracle tables to extract, transform and load data from external sources and OLAP data warehouses.

Client: Aetna Inc., Hartford, CT   **May 2012 – Oct 2012**
Role: Software Developer (ETL)

- Coordinate with application team and develop all ETL processes.
- Administer all requests and analyze issues and provide efficient resolution
- Understanding the data model, data mart, DWH and the end-to-end follow of data from the source to all the intermediate layers unit the data get populated in Find a Doctor portal and the PDF file.
- Prepare codes for all modules according to require specification and client requirements and prepare all required test plans.

Client: Blue Cross Blue Shield of Massachusetts, Boston, MA   **Feb 2010 – Apr 2012**
Role: Tableau Developer

- Developing, maintaining, and managing advanced reporting, analytics, dashboards, and other BI solutions.
- Performing and documenting data analysis, data validation, and data mapping/design.
- Reviewing and improving existing systems and collaborating with teams to integrate new systems.
- Conducting unit tests and developing database queries to analyze the effects and troubleshoot any issues.
- Understanding the data and KPI's or views which will be shown on final dashboard.

Client: American Express, Chennai, India   **Jul 2008 – JAN 2010**
Role: MicroStrategy Developer

- Developing, maintaining, and managing advanced reporting, analytics, dashboards, and other BI solutions.
- Performing and documenting data analysis, data validation, and data mapping/design.
- Reviewing and improving existing systems and collaborating with teams to integrate new systems.
- Conducting unit tests and developing database queries to analyze the effects and troubleshoot any issues.

Client: Key Bank, Chennai, India   **Mar 2006 – Jun 2008**
Role: Cognos Developer

- Developing, maintaining, and managing advanced reporting, analytics, dashboards, and other BI solutions.
- Performing and documenting data analysis, data validation, and data mapping/design.
- Reviewing and improving existing systems and collaborating with teams to integrate new systems.
- Conducting unit tests and developing database queries to analyze the effects and troubleshoot any issues.
- Understanding the data and KPI's or views which will be shown on final dashboard.