**UMA**

**847-474-3368 | simon@bedatatech.com**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**PROFESSIONAL SUMMARY**

* Over 10 years of experience in the IT industry, concentrated in dealing with data using Python and SQL.
* Professional working experience in Mobile application development on android Platform.
* Extensive experience in integrating with third party API's.
* Expert in creating Dashboards and visualization charts usingTableau, PowerBI.
* Extensive experience in data analysis such as in uncovering insights and discovering patterns.
* Strong experience in Data Analysis, Data Migration, Data Cleansing, Transformation, Integration.
* Experience working and knowledge about various database management systems and data platforms such as MySQL, Sybase, SQLite, NoSQL, DynamoDB, AWS S3, etc.
* Strong Knowledge and experience processing structured, semi-structured and unstructured data and handled different file formats like CSV, XML and JSON etc.
* Good understanding of big data technologies like Hadoop and Apache Spark.
* Expertise in developing analytical approaches to meet business requirements.
* Experience in Agile Methodology and Scrum Software Development processes.
* Familiar with Machine learning Supervised and Unsupervisedalgorithms**.**
* Worked on different ML projects with significant research and development.
* Hands-on experience with Aws Sage maker, lambda and S3. Deployed the models on Amazon Sage maker.
* Hands-on experience working on cloud platform such as Amazon Web Services.
* Involved in the end-to-end development of the project.
* Performed duties of data collection, data cleaning preparation, data analysis, model development and model deployment.
* Excellent communication and presentation skills in presenting research to large audiences.
* Ability to learn complex methodologies quickly and ability to convey complex analytical approaches and findings.
* Successfully worked in fast-paced and dynamic environment both independently and in collaborative team.

**TECHNICAL EXPERTISE**

* **Machine Learning:** Classification, Regression, Clustering, Regression analysis, Decision Tree, Random Forest, Support Vector Machine, KNN, Ensemble Methods, K-Means Clustering.
* **Programming Languages:** Python (panda, NumPy, scikit-learn), Java, SQL.
* **Databases:** Oracle, MySQL, PostgreSQL, MongoDB.
* **Big Data:** Hadoop Ecosystem - Hive, Pig, MapReduce, and Apache Spark, Databricks.
* **Data Visualization Tools:** Tableau, PowerBI, Seaborn, Matplotlib, Plotly, AWS QuickSight,
* **Cloud Data Systems**: Amazon Web Services (AWS)
* **ETL Tools:** Control M, Informatica PowerCenter, IBM DataStage
* **IDE:** Jupiter-lab, R Studio, PyCharm, Eclipse, Notepad++, IntelliJ, Microsoft Visual Studio, Android Studio.
* **SDLC Methodologies:** Agile, Scrum & Waterfall.
* **Mobile OS:** Android
* **API Development:** REST API, JSON
* **Project Management Tools:** Jira, confluence.
* **Version Control Systems:** Git, GitHub, Bitbucket.
* **DB Version Control Systems:** DB Maestro.

**EDUCATIONAL QUALIFICATION**

* Post-Graduation Diploma in Embedded System & Design
* Bachelor of Technology in Electronics & Communication.
* Certified as AWS Cloud Practitioner.
* Certified in AWS Certified Machine Learning – Specialty.

**PROFESSIONAL EXPERIENCE**

**Client:** **Deluxe Corporation, Minneapolis, MN Sept 2022 to Present**

**Role: Data Analyst**

**Project Description**:

This project is regarding the integration of different types of old legacy ordering systems. Migrating the ordering systems functionalities from old legacy systems to new systems. Analysing the customer and product data from various systems.

**Responsibilities:**

* Involved in collecting the requirements from various business groups.
* Analysing the data from different ordering systems by collaborating with the SME’s.
* Build and maintain Enterprise Data Dictionary.
* Involved in creating the data model which is based on JSON file format.
* Collaborating with cross-functional teams to understand the value of key business requirements.
* Used SQL and python to analyse the customer and product data of all the legacy systems for better understanding of the business requirements.
* Worked on different data formats such as JSON, XML, dat, text files.
* Involved in the Data analysis for all the products which are used by the consumers.
* Data mapping from old legacy systems data to the new target in the given logical data model.
* Creating the Data dictionary and maintaining it for the ordering systems data fields.
* Writing the SQL queries to fetch the data from various order systems databases.
* Writing SQL queries to data warehouse to gather the information about customers, products, and transactions of various systems.
* Writing the SQL stored procedures to create an end user of the dealers in customer database.
* Extracting the data from various data sources into Amazon S3.
* Writing spark jobs to collect the data from downstream systems to oracle databases and implementing transformation logic and updating to the target systems.
* Providing the production support for ETL jobs and maintaining the informatica and DataStage jobs.
* Created various types of data visualizations using Python, Tableau and AWS quick sight.
* Write DDL/DML queries to create the schemes and tables, update, delete the data from databases.
* Extracting the information or attributes which are related to the products, customers, and dealers.
* Develop and integrate the queries with the relevant Application interfaces (API’s).
* Creation of complex written and verbal reports, findings, and presentations by using various visualization tools such Tableau, Excel.
* Used problem-solving skills to find and correct data problems, applied statistical methods to adjust and project results when necessary.
* Involved in Agile/SCRUM process, attending daily stand up and completing tasks in sprints.

**Environment:** Python, Oracle SQL developer tools and MySQL, Tableau, Power BI, Excel, JIRA, Jenkins, Git, Bitbucket, JIRA, AWS S3, AWS Glue ETL, Informatica Power Center, AWS quicksight.

**Client: CapitalOne Dec 2021 to Aug 2022**

**Role: Senior Data Analyst**

**Project description:**

This Project is regarding Technology risk management. As part of the second line of defense, we will give expert advice, credible challenge, and effective oversight of first line activities to identify, assess, control and manage cyber risks which includes information security and technology risks.

**Responsibilities:**

* Gathering requirements which are related to metric reviews from stakeholders and understanding the requirements.
* Document the evidence and reviewed data which belongs to metric review.
* Creating the Job Aids and data compliance related documents based on requirements.
* Collaborating with SMEs to develop key metrics across tech/cyber categories to ensure consistent methodology and presenting to board.
* Performed data mining on data using very complex SQL queries and discovered patterns and used extensive SQL for data profiling/analysis to provide the expert advice to the first line of defense.
* Developed Metric maturity framework which will help us to understand the metrics in the long run without frequent reviews of them.
* Analyzed data related to Information security and technology risks and reviewed the Metrics and RAMs of cyber security based on requirements.
* Creating databricks spark jobs which will run based on schedule and create tables in snowflake by reading data from source upstream tables which will be used in reporting the aggregate risk analysis.
* Analyzing the data which is pulled from snowflake warehouses and creating the reports through Tableau.
* Helped in IRP compliance review.
* Created dashboards in Tableau desktop based on the data collected from MS-excel and CSV files, with Snowflake Datawarehouse’s and maintaining all team Tableau dashboards and doing enhancements based on user's requirements.
* Prepared and presented complex written and verbal reports, findings, and presentations by using various visualization tools such as Tableau, Power BI.
* Used problem-solving skills to find and correct data problems, applied statistical methods to adjust and project the results when necessary.
* Involved in Agile/SCRUM process, attending daily stand up and completing tasks in sprints.

**Environment:** Snowflake**,** Databricks**,** Tableau**,** Python, SQL, Spark SQL, Excel, CSV, Git, JIRA, Confluence and ServiceNow.

**Client:** **Lowe’s Companies, Inc,** **Charlotte, NC Sep 2020 to Dec 2021**

**Role: Data Scientist**

**Project Description**:

The project is regarding the implementation of ML solutions for predicting sales. As a Data Scientist, I build predictive models, to predict the sales of the products.

**Responsibilities:**

* Involved in extracting customer's Big Data from various data sources (Excel, Flat Files, Oracle, SQL Server, MongoDB, Teradata, and log data from servers) into AWS S3.
* Performed data transformations using AWS Glue ETL.
* Performed datapre**-**processing and datacleaning to perform featureengineeringand performed dataimputation techniques for the missing values in the dataset using PythonPandas**.**
* Performed EDA on data to find the outliersin data and did analysis to find best way to avoid outliers.
* Defined the mathematical approaches, developed new and effective analytics algorithms by using Python.
* Developed analytical approaches to answer high-level questions and develop insightful recommendations.
* Responsible for conducting various statistical analysis like linear regression to the data for analysis.
* Developed models including XGBoost, Decision Trees, Random Forest, Regression models.
* Used clustering algorithms to get better understanding clusters of the data.
* Implemented the finalized ML algorithm and validated on validation sample data set.
* Used pandas, NumPy, seaborn, SciPy, matplotlib, scikit-learn in Python for developing various machine learning algorithms.
* Used sklearn Encoding techniques to convert the features according to the requirement of the data.
* Created various types of data visualizations using Python and Tableau.
* Worked on different data formats such as parquet, JSON, XML using Python.
* Developed and applied metrics and prototypes that could be used to drive business decisions.
* Used problem-solving skills to find and correct data problems, applied statistical methods to adjust and project results when necessary.
* Involved in Agile/SCRUM process, attending daily stand up and completing tasks in sprints.

**Environment:** Python, MongoDB, MS SQL Server, Amazon SageMaker, Tableau, SQL, Hadoop Framework, Spark SQL, AWS S3, AWS Glue ETL, Spark MLLib, Inference Pipelines, Pyspark, Excel, Docker, Linux.

**Client: Rent the Runway, San Francisco, CA Jan 2020 to Aug 2020**

**Role: Data Analyst**

**Project description:**

Founded in late 2009, Rent the Runway is an E-commerce company that provides designer dress and accessory rentals. As a Data Analyst, I analysed the data to build the predictive models, predicted end customer behaviours and product performance.

**Responsibilities:**

* Performed univariate and multivariate analysis on the data to identify any underlying pattern in the data and associations between the variables.
* Performed data mining on data using very complex SQL queries and discovered pattern and used extensive SQL for data profiling/analysis to provide guidance in building the data model.
* Responsible for mining large data sets and connected data from different sources to identify insights and designs.
* Analyzed data and predicted end customer behaviors and product performance by applying machine learning algorithms using sklearn.
* Used Python, to create Statistical algorithms involving Multivariate Regression, Linear Regression, Logistic Regression, Random Forest models, Decision trees, Support Vector Machine.
* Helped in migration and conversion of data from the Oracle database, preparing mapping documents and developing partial SQL scripts as required.
* Used K-Means Algorithm Model with different clusters to find meaningful segments on customers and calculated the accuracy of model.
* Created dashboards in Tableau desktop based on the data collected from MS-excel and CSV files, with MS SQL server databases.
* Created various types of data visualizations using Python and Tableau.
* Prepared and presented complex written and verbal reports, findings, and presentations by using various visualization tools such as Matplotlib, ggplot2.
* Used problem-solving skills to find and correct data problems, applied statistical methods to adjust and project results when necessary.
* Involved in Agile/SCRUM process, attending daily stand up and completing tasks in sprints.

**Environment:** Python, NumPy array, Pandas, matplotlib, seaborn, R, Machine Learning, SQL, Excel, CSV, SQL Server, XML, Tableau Sklearn, Jenkins, Git, JIRA,

**Client: CVS Health, Dallas, TX Nov 2018 to Dec 2019**

**Role: Analyst - Data Visualization**

**Project Description:** The goal of the company aims at developing the technology, solutions and programs that give consumers greater access to care, working with providers to ensure a quality health care experience for consumers and easing cost challenges by advancing affordability in the healthcare industry. As an analyst my job used to analyze the data and create the dashboards.

**Responsibilities:**

* Extract, process, and analyze vast amounts of data using SQL and MS Excel.
* Successfully delivered multiple visualizations using Bars, Lines, Pies, Polka dots, Box and Whisker Plots, Gantt, cross tabs, filters, Facts, Attributes, Hierarchies, Transformations, Parameters, Actions etc., in Tableau.
* Responsible for generating weekly, monthly reports and worked with management to prioritize action based on the reports.
* Mapping datapoints between Datawarehouse’s in databricks.
* Experience in assessing the quality of the data and performing Exploratory Data Analysis (EDA) for meaningful insights.
* Used databricks notebook to generate and analyze the reports of data using spark SQL and python.
* Building, publishing customized interactive reports and dashboards using PowerBI.
* Analyzed data and documented all the inferences by comparing different date sets.
* Identifying different kinds of variables and data points used for plotting as per client’s specifications.
* Used different plots for data visualization and created a dashboard for business presentations.
* Improving or adding enhancements for the dashboards.

**Environment:** SQL, Power BI, SQL server, Python, Pandas, Spark SQL, Databricks.

**Client: IamPlus Electronics Pte Ltd, Singapore Nov 2013 to July 2017**

**Role: Senior Software Engineer**

**Project Description**:

Omega AI Platform is a secure, scalable, end to-end solution to design, build, test, and deploy Conversational AI powered chat-bots. Platform uses its own NLP and NLU engines developed in-house.

Omega Super App - Many apps within umbrella app. User can check email, calendar events, news, book movie ticket, hotels, flight tickets, with cross domain functionality use cases handled. Partners for super app are Air Asia, MAF etc. App focuses on voice first experience followed by touch on iOS and Android.

Dial is standalone smart watch which is designed and developed at Iamplus.This Smart watch main features includes phone, contacts, messaging, email, calendar.

**Responsibilities:**

* Involved in data acquisition from AmazonMechanicalTurk(MTurk) and involved in the datapre**-**processing, datacleaning**,** checking for the missingvalues. validating and fixing the wrong data.
* Defined the user conversation and classified the intents and entities for each skill.
* Integration of Intents with each skill actions.
* Involved in technical discussions with third party vendors, internal teams to review architecture & resolve technical issues.
* Development of mobile components of android platform across its full life cycle.
* Maintaining quality, performance, and responsiveness of application from development through deployment.
* Worked on first ever stand-alone smart watch for developing calendar app for small screen with innovative UI design for accessing all functionalities which also includes voice-based actions capabilities.
* Played key role in developing AI based email classification which notifies only urgent emails to user based on user's usage & content.
* Played key role in developing AI based Calendar events creation and deletions. All Calendar events for all type of accounts.
* Identified the use case scenarios of all existing applications, and defined intents and its entities for these use case scenarios.
* Integrated Nuance NLU Mix panel ASR (Automatic Speech Recognition) solution with support for custom dictionary like user contact names (Outlook & Gmail), malls, brands, using Nuance Mix panel connecting thru web sockets.
* Involved in automation and manual testing of the modules.
* Active participant in all aspects of release cycles, including requirement review, sprint planning, design, project status review, peer code reviews, testing and implementation.
* Integrated back-end applications & chat-bot using Omega AI Platform to provide a conversational Voice Experience.

**Environment:** Java, Jenkins, Android SDK, Eclipse, MongoDB, Android studio, Version Control Systems: Git.

**Client: LG Soft India Pvt Ltd, Bangalore, India Jan 2010 to April 2013 Role: Software Engineer**

**Project Description**:

This project involves Upgradation of Android OS Versions of various LG Mobile Models (P970, VS910, P500, GT540, P350 GD880, BL20, GD580, GC900, KM900, GT505, KC910, KS500, KF750, KT520). Android OS versions from FROYO to GB and from GB to ICS and ICS to JB.

**Responsibilities:**

* Developing various telecom operator requirements in SMS, Calendar, Browser, Settings Application for Asia, Middle East, Europe regions.
* Understood SMS, Calendar application and Cell broadcast application, mobile architecture in LG proprietary WISE OS for UI and functionalities.
* Very good understanding in Calendar, SMS, Browser and Settings, Tool and Memo applications.
* Highlights of work at LG includes all LG customizations upgrading from android versions Froyo to GB and from GB to ICS and ICS to JB.
* Worked with LG headquarters to deliver LG P936 model on time to Asia & MEA regions executed at LG headquarters.
* Bug fixing for any issues which comes during various countries adaptations in Browser, calendar, Tools, Memo, Settings Applications.
* Taken ownership in some build and release for some country releases of LG android Mobile releases.

**Environment -** Java, Qualcomm: MDP, Eclipse IDE, Putty, QPST, QXDM, Beyond Compare, SQLite