**Suneeth Sreedharan** [**s.suneeth@gmail.com**](mailto:s.suneeth@gmail.com)[**www.linkedin.com/in/suneethsreedharan**](http://www.linkedin.com/in/suneethsreedharan)

**Summary:**

An accomplished Results-driven data engineering and analytics professional with a proven track record in designing and implementing data-driven solutions. With 15+ years of extensive experience in data engineering, data modeling, and analytics, who has successfully delivered projects that drive business growth and optimize decision-making processes.

**Specialties**

* Proven track record in business data analysis, data profiling, data migration, data integration, and data engineering product development.
* Designed and optimized data pipelines, ensuring efficient data extraction, transformation, and loading (ETL) processes.
* Proficient in a variety of programming languages, databases, and big data technologies, including SQL, Python, Scala, Hadoop, DynamoDB, Redswift, Snowflake, Glue Crawlers (Data Catalog), Kinesis Firehose, Spark, pyspark, Neo4j(graph database), SingleStore (Vector Database), ElasticSearch and Kibana.
* Effectively managed complex data infrastructures and integrated diverse data sources; has also applied strong understanding of data governance and best practices to ensure data quality and compliance.
* Extensive experience is possessed in domains such as commercial insurance, actuarial data science, online banking, anti-money laundering, and Special Investigation Unit
* Proficient in statistical analysis, data visualization, entity Resolution and other machine learning techniques, and has generated valuable insights and predictive models that have guided strategic decision-making. Collaborated closely with data scientists, analysts, and business stakeholders to identify key metrics, performed exploratory analysis, and developed data-driven solutions.

**The Hartford (FTE) Senior Data Engineer [Jan 2017-Now]**

**Roles and Responsibilities:**

**Project 1 - Entity Resolution Project (2022, Jan-):**

* Designed and implemented entity resolution solutions using Scala, Spark, Python, and leveraged various technologies such as containers, AWS RDS, Snowflake, Angular UI,Type Script,Node Js, Transient Cluster(EC2), Docker, Container, Elasticsearch, OpenSearch, Lambda, Kibana, Glue(Data Catalog) and Autosys/Airflow.
* Designed and optimized data pipelines, ensuring efficient data extraction, transformation, and loading (ETL) processes.
* Automated the MVP Entity Product, ensuring adherence to industry standards and best practices as a Senior Full Stack Data Developer.
* Utilized Scala, Python, and Shell script to extract, transform, and load data from various sources into the AWS S3 storage.
* Designed and optimized pyspark, python and Scala queries to support reporting and analysis
* Collaborated with IT teams to enhance data security and implement access controls in compliance with industry standards.
* Integrated the entity resolution system with Angular UI and nodeJs providing a user-friendly interface.
* Optimized data pipelines and queries for performance and scalability, ensuring efficient processing and quick response times.
* Implemented data governance practices to ensure compliance with industry regulations and data privacy requirements.
* Implemented data quality checks and validation techniques to ensure accurate and consistent data for analysis.
* Mentored and provided technical guidance to junior data engineers, fostering their growth, and promoting best practices in data engineering.

**Project 2- Data Hub for Commercial Lines-Analytical Data Mart, CLDH (2018, Nov to 2022, Jan):**

* Led the agile development and served as the Technical Product Owner and Lead Data Engineer for the implementation of a cloud-based data hub for Commercial Lines.
* Designed and implemented initiatives, including building lineage for Hired-Non-Owned vehicles in Oracle using PL-SQL, pattern matching, database links and monitoring data set health using time series algorithms (ARIMA, ARMA).
* Collaborated with Data Scientists, Actuarial, Research Modelers, and internal/external data suppliers to analyze data sources, define business requirements, and provide high-level data analysis- and ensure the availability of accurate data in a timely fashion.
* Implemented automated data integration processes, enabling seamless data ingestion from various sources into the data mart.
* Architected and optimized data pipelines, ensuring efficient data extraction, transformation, and loading (ETL) processes best practices.
* Successfully transitioned legacy systems to modern cloud-based assets, leveraging Snowflake and AWS.
* Demonstrated leadership as the Product Owner for the Kanban team, guiding them in the agile adoption journey.
* Developed comprehensive training materials and provided end-user training to ensure high customer engagement and adoption of data solutions.

**Project 3- Claims Data science (2017, Jan to 2018, Nov):**

* As a member of the Claim Research Data Team, provides data, business, and technical support for a wide range of models to drive improved claim outcomes for indemnity and loss adjustment expense improvement for both commercial and consumer lines.
* Work closely with Research Modelers, external and internal data suppliers throughout The Hartford in analyzing data sources, being subject matter data expert, defining business requirements, providing data, and assisting in high level data analysis.
* Using SAS, R and Oracle PL-SQL come up with Auto, Medical, WC instructables get model-ready data for Claims(based on ECOS, CDW) data science models.
* Involved in Hypothesis testing for FNOL based models, lead creating pipeline based on complex data assets for prototyping, data discovery, profiling, etc.

**American Technology Consulting, LLC, End Client: Wells Fargo, Charlotte, NC SAS Programmer/ Snr. Data Engineer [Mar 2016 – Jan 2017]**

AvA Project: Actual vs. Accepted (AvA) - a model designed to notify Relationship Managers (RMs) of significant changes in customer activity. Implemented SAS ECM suite and Oracle dB for AvA purpose.

* Implemented the SAS ECM suite and Oracle dB for the AvA project, which aimed to notify Relationship Managers (RMs) when a customer's activity changed significantly from their previous activity.
* Played a key role in the planning, analysis, design, implementation, maintenance, and control of server-class databases to support the AvA project. Developed and maintained data pipelines and ETL processes
* Successfully mapped XML services to the SAS ECM staging process for efficient data loading into Oracle dB.
* Collaborated with the Crime Analytics team to create a SAS Visual Analytics dashboard in the Sandbox environment, leveraging the ECM dB.
* Led complex data/database management activities, including designing highly complex logical and physical databases, data modeling, mapping, integration, and capacity planning efforts.
* Developed management policies, procedures, and standards to ensure efficient data management practices.
* Contributed to the migration of user authentication in SAS Meta Server from UNIX-based (BoKS) to a Windows-based process (SSO), enabling seamless login for 2000 users in the SAS ECM tool.
* Worked on a proof-of-concept (POC) to set up the application, database, and procure source data for Palantir Gotham, a suite for advanced analysis of customer transaction data, including semantic, temporal, geospatial, and full-text analysis.

**American Technology Consulting, LLC , End Client : BB and T, Winston-Salem, NC; SAS Programmer/ Snr. Data Engineer [Jul 2015 – Mar 2016]**

**RED-C (Mortgage Risk Exposure Data) Enhancement Project**

* Collaborated with product, service, and project teams to understand business and data requirements, translating them into complex database analyses.
* Conducted in-depth exploratory analyses and research using SAS to connect to Netezza/DB2 and source files, providing actionable insights to General Banking Regulation, Risk, Compliance Systems, and business partners.
* Transformed research findings into business rules/logic for ETL processes, ensuring compliance and accurate data transformations (Talend).
* Performed User Acceptance Testing (UAT) for RED-C Risk Exposure Data Mart releases, ensuring calculations, business logic, and field values met requirements and were validated by the line of business.
* Interpreted research and analytic findings, communicating their strategic and tactical implications to the business.
* Developed database flow and metadata documentation for future reference and compliance purposes.
* Generated ad-hoc reports and SAS-based reports using Teradata, DB2, and Netezza, as well as Informatica 9.1 workflows.
* Utilized SQL, SAS, Talend, Ab Intinio, Informatica skills to manipulate loan-level and servicing-level data for probability of loan default calculations.
* Supported System Integration Testing (SIT) and UAT of mortgage data migration from DB2 platform to Netezza platform.
* Maintained a working knowledge of SAS programs for generating CCAR (Comprehensive Capital Analysis and Review) reports.
* Collaborated with FISM Data Management to ensure proper source lineage was maintained.
* Demonstrated expertise in line of business data to minimize the impact of instruction changes on CCAR schedules.
* Tracked and investigated issues from initiation through resolution, working with stakeholders to ensure timely resolution and documentation.

**American Technology Consulting, LLC, END CLIENT: WELLS FARGO, CHARLOTTE, NC- SAS Programmer/ Snr. Data Engineer [FEB 2014 – Jul 2015]**

*FCA Ecosystem Project (AML SAS HPA Platform)*

* Collaborated with product, service, and project teams to understand business and data requirements, translating them into moderate to complex database analyses.
* Designed and created one model-ready schema in Teradata to procure data for 26 AML models, optimizing input data, run time, and schedule. Implemented a DataMart based on a star model to house data in the Analytics Core for all 26 models and built imstat-DS2 programs. Hosted SAS ECM UI for the Triage process.
* Built Proof of concept based on SAS visual analytics and Tableau dashboards on the Analytics Core for ad-hoc analysis, data discovery, and advanced analytics.
* Conducted in-depth exploratory analyses and research, providing actionable insights to the AML Financial Analytics team and business partners through heatmap, geomaps, and visualization dashboards.
* Generated data summary tables using descriptive statistics and performed data cleaning and quality assurance measures.
* Reverse engineered and analyzed the existing Fortent AML alerts transaction monitoring system based on Actimize/NICE vendor tool and .NET class objects. Collaborated with DBAs, system admins, stakeholders, and external vendors to perform gap analysis and implement SAS solutions to replace Actimize.
* Developed and maintained specifications and process documentation for data deliverables, including data profiling, source-to-client maps, and flows.
* Identified data sources and opportunities for additional automation while ensuring compliance with regulations and policies.
* Created ad-hoc reporting and SAS programs using Teradata-SAS (HPAML-SAS LASR analytic server, TD720) for rewriting Base SAS code into SAS IMSTAT/DS2. Implemented SAS programs for categorical data analysis and regression modeling.

**Grapnel Tech Services, End Client: BANK OF AMERICA, CHARLOTTE, NC; SR DATA ANALYST/Data Engineer [FEB 2013 - FEB 2014]**

*Wholesale Risk Data Migration and Integration Project*

* Played a pivotal role in migrating Wholesale Risk data, specifically Customer details related to Credit Risk, from Teradata database to Netezza Database.
* Led the project to ensure seamless downstream extracts, based Talend and Netezza PL-SQL; with data checks
* Integrated Credit Risk data (Customer data) with Market Risk data, using Talend, PL-SQL and HiveSQL, Autosys, , unified into a single version in the Netezza Database.
* Led and managed a team of developers and testers in an AGILE-based methodology for migrating Wholesale Risk data from Teradata database to Netezza Database.
* Improved data quality by integrating Credit Risk data (Customer data) with Market Risk data
* Wrote SQL queries for data validation of the Oracle database and performed data profiling, cleansing, integration, and extraction using SQL, Talend on Teradata and Netezza.
* Designed and created Hadoop data file structures using HIVE and Scoop for enhanced data processing capabilities.
* Conducted data validation by executing stored procedures in PL/SQL and evaluated data profiling, cleansing, integration, and extraction tools
* Played a key role in data design, data modeling, and data analysis, contributing to the creation of a Data-Mapping best practices document and training team members on the Data Mapping process and tools.

**Grapnel Tech Services, End Client: WELLS FARGO, CHARLOTTE, NC SR BUSINESS SYSTEMS ANALYST [NOV 2011 - JAN 2013]**

ECPR **(ENTERPRISE CUSTOMER PROFILE AND REFERRALS)** is a Web Services based system that implements customer-oriented shared business services.

* Developed and updated technical specifications of the APIs (application programming interfaces), documenting data attributes, transformations (Talend), business rules, and flow of control to facilitate seamless integration and communication.
* Created UML Component diagrams in the enterprise architecture, providing visual representations of technical use cases to enhance understanding and collaboration across teams. ]
* Guided technical and testing groups in root cause analysis of system defects, ensuring effective resolution and enhanced system performance. Led project management activities, following a defined release calendar for deliverables, and ensuring completion of assigned tasks according to agreed-upon milestone dates.

**Grapnel Tech Services, End Client: WELLS FARGO, CHANDLER, AZ SNR BUSINESS SYSTEMS ANALYST** **[APR 2011 – NOV 2011]**

CCT Agent Applications is a matrixed IT organization that supports a group of applications used by call center bankers to service and sell Wells Fargo products.

* Developed functional specifications, request message mapping, field specifications, and error specifications, employing techniques such as business rules, decision tables, UML modeling, and transaction mapping.
* Created RSL specifications (DataMart) and CMS key definitions to ensure accurate and consistent data representation.
* Identified opportunities for system optimization, conducting gap analysis and providing alternative solutions to enhance business efficiency.

**COGNIZANT TECH SOLUTIONS, CHENNAI, End Client: UBS, WHITE PLAINS, NY - BUSINESS SYSTEMS ANALYST [MAR 2008 – JAN 2009]**

*Project 1: Centralized Web-Based Application Infrastructure*

* Developed a web-based application infrastructure using HTML, Java, and C++ to improve development time and enable online data access. Created a module allowing customers to search for and calculate prices of various bonds, including corporate, treasury, municipal, and savings bonds.
* Produced use case specifications, data models, and business flow diagrams using UML techniques to ensure clear understanding among stakeholders.

*Project 2: DS3 - Data Services Support System*

* Led requirement and data analysis efforts, ensuring uninterrupted executive enterprise reporting and business intelligence.
* Managed project timelines and resources for successful completion, coordinating activities across three teams (ETL, DW, and Reporting).
* Utilized SQL, Toad, data warehousing, and data cleansing techniques to arrange customer data on an Oracle database for the Risk Department. Developed dimensional design documents and optimized the IBM Cognos 8 environment.

*Project 3: Statistical Modeling and SAS Programming*

* Developed and ran SAS programs to support Marketing and Analysis statisticians, focusing on demographic analysis and risk forecasting for credit card customers.
* Implemented credit risk analysis models based on FICO scores and employed statistical techniques such as linear regression. Conducted fraud detection and prevention activities, analyzing customer data networks and identifying hidden connections and relationships.
* Implemented complex SAS macros to simplify code and improve efficiency.

**COGNIZANT TECH SOLUTIONS, CHENNAI, End Client: CITIZENS BANK, RI BUSINESS ANALYST/DATA ANALYST [AUG 2006 – MAR 2008]**

*Project 1: Integrated Online Portfolio Management System (IOPMS)*

* Led the implementation of an extranet online interface for the bank's account holders using Java, Web 2.0, JSP, and HTML technologies.
* Contributed to the development of customized sales and service software for the bank.

**EDUCATION QUALIFICATIONS:**

* Master in DATA SCIENCE AND BUSINESS ANALYTICS (M.S degree), Charlotte, NC- (2020-2023)
* Master of Business Administration in Management Sciences, Indiana University of PA-(2009-2010)
* Bachelor of Engineering, Electrical and Electronics Engineering, Anna University, Chennai, India-(2002-2006)

**CERTIFICATIONS:**

* **Python** for Time Series Data Analysis;
* Regression Analysis for Statistics & Machine Learning in **R**
* Quantexa Certified Entity Resolution Network Analytics Engineer-Skills- Scala, pyspark and Angular UI.
* Associate Data Engineer certification by <https://learndataengineering.com/> Skills- Data engineering on AWS, Cloud Data Stores, Document Streaming, APIs, Kafka, Redshift, Kinesis data Stream, Lambda, Glue, Crawlers, Data catalog, SingleStore/Vector Database
* SAS Certifications: Visual Analytics; DS2 Programming; IMSTAT programming (in-memory/NoSQL analytics
* The Hartford’s Actuarial Leadership Training Program (ALTP) course on Fundamentals of Ratemaking and Reserving.

**OTHER PROJECTS:**

Improving Data Quality of Data asset based on Entity Resolution by using Machine Learning models

**https://www.kaggle.com/code/suneeth84/h-m-analytics-rfm-item-based-recommendation-v2**

**Visa Status:** H1-B (Green Card I-140 Approved)