Career Summary

* 14 Years’ experience in HealthCare domain and strong knowledge in core systems like Member/Provider/Microproducts/IMDM.
* Hands on Experience in Kafka, Spring boot, Java and Azure Cloud
  + Played major role in Migrating the Mainframe Core Tables to PostgreSQL using real time streaming and Batch
* Hands on Experience in ML/NLP/DL
* Design & Developed In House tools Leveraged different teams Tunning Recommender, HPU, Purge process, Snowflake monitoring tool
* Hands on Experience Warehouse Snowflake Stage, streams, Store Procedure and Task
* Submitted 15+ POC in redesign the application and implementing best performance methods to reduce the CPU in usage in **Prime and Non-Prime Hours [~ 2.5M]**
* Hands Experience on Apache Spark, Pyspark, Airflow, AWS S3, Scala, Python, Hadoop, Pig, Hive, HBase, Sqoop, MapReduce Java ,Spring Boot and data bricks
* 3+ Years Experience on Camunda and Graphql
* Expert in agile and waterfall project management methodologies. Able to manage large project teams and known for high-quality deliverables that meet or exceed timeline and budgetary targets.
* Experience in redesigning the Spark SQL Queries to achieve better Performance
* Experience in redesigning the Postresql SQL Queries to achieve better Performance
* Hands on experience in setting up workflow using Apache Airflow for managing and scheduling Spark Scala jobs.
* Excellent communicator: leverage technical, business, and financial acumen to communicate effectively with client executives and their respective teams.
* Proficient in managing and handling critical production support activities and adopted Kanban methodologies to improve TAT.
* Experience in working and leading diversified teams
* Good knowledge in Data profiling, Trending, and analytics
* Competence in analysis of functionalities and preparation of High-level design, functional and technical specifications, Development, Testing analysis, Test strategy and Test scripts.

Summary of Projects Associated With

* United Health Group.
  + - * Consumer Database (CDB)
      * Micro Products

**Project Overview: Consumer Data base**

CDB is a single repository of product, service, marketing, and demographic information for all members served across every UnitedHealth Group line of business. CDB would functions as “Source of Truth” for consumer information and has become the steward of ongoing consumer data quality. CDB will allow for consumer-driven services and marketing by providing member-level information regarding all UHG products purchased (e.g., operationalized market insight, customer business event management, improved cross-selling and targeting) Due to Search Response data and data volume increase have created limitations in the existing infrastructure in (DB2).so we have moved EDP Platform

**Role and Responsibilities:**

* Lead Designer for the Member Reporting and Data Management
* Developed Complex Common Edit Module using Spark and Scala which Support all Customers
* Design and Develop Complex ETL Pipeline for Compress timeline reporting

[ Optum Rx, Medicare and Survey Reports]

* Successfully Onboarded 30 Customers to EDP [ Enterprise Data Platform]
* Participate in JAD’s and finalize the designs.
* Develop complex modules to transform the data and load into S3, PostgreSQL, MongoDB & Elastic DB.
* Designed Member search API’s and expose them to the consuming apps.
* Worked with the Scrum Team and the Product Owner to negotiate the minimum viable product for delivery.
* Support the product delivered throughout the warranty period and hand over to Ops team.

**Migration Projects Phase wise:**

**Role: Data Engineer – 2010 - 2016**

Phase – 1:

* Worked on data ingestion using HPU for membership and Structure tables
* Created Hive ORC tables for member reporting feeds
* Designed and developed Weekly Reconciliation between Hive Orc and Mainframe Core tables
* Designed History Storage using HBase where we are storing 5 version of member data

to track all Active Coverage Records, Physical and Logical Deletes from CDB Mainframe Application

* Supported code/design analysis, strategy development and project Planning

**Role: Associate Data Engineer – 2016-2018**

Phase – 2:

* Worked on data ingestion using Kafka and Successfully loaded membership and Structure in EDP
* Successfully migrated all membership and associated structure tables to EDP
* Weekly reconciliation between CDB Mainframe and EDP application
* Designed History Storage using S3 where we are storing 5 version of member data [ Same as HBase] to track all Active Records, Physical and Logical Deletes from CDB Mainframe Application
* Storing member level changes tracking in the mongo DB for Business reporting at Source code level
* Supported code/design analysis, strategy development and project planning.

**Role: Associate Data Engineer Manager – 2018-2020**

Phase – 3:

* Migration of Member reports from CDB Mainframe application to EDP using Spark SQL, Scala & PostgreSQL
* Migration of spark jobs from TWS application to Kubernetes
* Design and Developed Complex Reconciliation between EDP and Mainframe
* Implemented Airflow by replace TWS application
* Started Decommission of Hive Orc format tables and History HBase Load Jobs

**Project Overview:** Micro Products:

Micro Products built to improving overall health system performance through market leading information, data analytics, technology and clinical insights using Power of Bigdata, AI/ML, Snowflake, Kafka, Azure, Hasura and GraphQL to modernize our extensive clinical platform and improve health care systems for millions. Each Micro Product is to help the Providers, Nurses and Members

Micro Products like Care Plan, Practice manager, Assessment, Virtual Visit help Members to improve their health

**Optum Clinical Manager (Behavioural Health Stratus)– (Till Date) – (United Health Group) :**

**Optum Clinical Manager** (OCM 2.0), also known as the Enterprise Clinical Platform (ECP), is a cloud-based commercial platform that manages populations from wellness to chronic care and enables utilization management to drive better outcomes and increase operational efficiency for payers and providers.

By Using this Clinical Manager platform, we have developed **Behavioural Health** Micro products.

Under

* **Care Management**

Care Management is a team-based, patient-centered approach designed to assist patients and their support systems in managing medical conditions more effectively.

Role: Solution Architect – 2021-Present

* Played key-role on onboarding BH & Pace client to CM
* Responsible for E2E Solution for care plan and practice manager Microproduct
* Responsible for creating Architecture Diagrams for CM products and maintaining in the microsite
* Attending JAD session at CM Microproducts
* Identifying the ML/AI opportunities in Micro Products
* Integrating each micro product with Snowflake for reporting purpose
* Responsible for performance tunning and reporting issues

AI/ML Project work in CARE MANAGEMENT:

* Recommendation for Interventions to care agents
* ML-NLP Project for care plan to identify the health topics from Text and voice calls
* Recommending Reminders for care agents based on members behavior

**ACADEMIC PROFILE:**

* Post-Graduation from IIIT – BANGALORE on Data Science
* B.Tech. (Electronics & Communication) from Jawaharlal Nehru Technological University

**Certifications**

|  |  |
| --- | --- |
| **Certification** | **Year** |
| Snowflake Pro Core [ External ] | 2022 |
| Azure Data scientist [ External ] | 2021 |
| Full Stack Data Engineer (Optum) | 2020 |
| Data Scientist from IIITB [PG] | 2018-2019 |
| Aws Bigdata engineer [ External ] | 2018 |
| Green Belt Certification (Optum) [ Internal ] | 2017 |
| Lean Sigma Certification (Optum) [ Internal ] | 2016 |
| IBM DB2 Fundamentals and Performance [ External] | 2011 & 2014 |

**Recognitions at OPTUM GLOBAL SOLUTIONS ( UHG)**

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| --- | --- |
| **Recognitions** | **Year** |
| Make IT Happen Award (Team and Individual) | 2018 |
| Diamond Award | 2018,2019,2021,2022,2023 |
| Transformation Champion | 2019,2020,2021 |
| Sustain Edge award | 2016,2017,2018,2022 |
| Star Award | 2011,2012,2014,2015 |