Jagnyesh Patra

Tampa,Fl | P:6304638706 | jagnyesh@gmail.com | https://www.linkedin.com/in/jagnyesh/

QUALIFICATIONS SUMMARY

- Expansive knowledge of Healthcare Interoperability, Data exchange standards, SDLC/Agile processes to create frictionless solutions.
- Over 6 years of cross-functional experience in Data Science/Engineering, Product Management, Sales and Operations to drive growth and create a sustainable impact for stakeholders and end clients.
- Well-versed with healthcare and pharma coding/terminologies/workflows such as CPT/HCPCS, CVX, ICD, NDC/GPI, SNOMED-CT and data exchange standards HL7/FHIR/C-CDA, Integration engines (Mirth/Nextgen Connect), EHRs (EPIC, Cerner, Allscripts)

PROFESSIONAL EXPERIENCE

University of Illinois Chicago, Chicago, United States
Biomedical Informatics Research Specialist, Center for Clinical and Translational Sciences   *08/2023 - present*

- Worked on Epic to OMOP and Cerner to OMOP transformation to build Clinical Research Data Warehouse.
- Working on Epic Cogito, Caboodle, Clarity and Clinical Data Model certifications.

Optum/UnitedHealth Group, Minneapolis, Minnesota, United States
Senior Business Data Analyst, Data Engineering (SDR/Enterprise Clinical Data Hub)   *1/2022-08/2023*

- Built User Stories and assign tasks to development team to capture business requirements and to align with USCDI conformance.
- Directed product leads to refine requirements for optimum parsing of data from HL7v2 messages (ADT, ORU, RSP), CCDs and flat files to FHIR US Core profiles.
- Worked in an Agile team as primary functional/technical liaison to create source-to-target mapping documents and help developers understand FHIR requirements to store clinical data in Snowflake and Azure Cosmos DB post conversion from HL7v2 formats.
- Worked with Product team to collaborate with InterSystems to improve IRIS FHIR parsing to promote interoperability.
- Created requirement documentations for developers for data migration tasks from existing Apache Hadoop platform to Snowflake and CosmosDB.

CDC/CSELS, Atlanta, Georgia   *1/2022-9/2022*
Senior Systems Engineer/FHIR Consultant (Part time contract)

- Collaborated with health scientists on refining CDC submissions for USCDI v4 and USCDI+ with the Data Standards Management and Harmonization work group.
- Built mapping documents to capture maturity of use and technical specifications (FHIR and HL7 IGs) for USCDI Data Elements being submitted.
- Performed gap analysis of USCDI elements submitted on ONDEC to identify missing technical specifications of Data elements already submitted.
- Built recommendation guides for discovery of appropriate code systems, value sets and Implementation Guides.

Optum/UnitedHealth Group, Minneapolis, Minnesota, United States
Senior Systems Analysis Consultant, Data Engineering   *04/2021-12/2021*

- Modeled the framework to derive RAF scores for HCC-CMS Risk Adjustment by guiding developers to parse the optimum demographic, clinical data from CCDs.
- Built API orchestrations using Mirth/Nextgen Connect to automate clinical data transfer between different EHRs in real time.
- Analyzed and wire-framed existing provider facing EHR UI to build more robust and accessible user experience by guiding UX/UI developers.
- Created flows using Power Automate to transmit Clinical Data from Provider facing UI to EHR (Allscripts Touchworks).
- Reduced provider clicks required to complete tasks such as creating an order, prescription etc. by up to 27%.

Optum/UnitedHealth Group, Minneapolis, Minnesota, United States
Senior Data Analyst/Business Analyst, Data Engineering(SDR/ECDH)   *10/2020-04/2021*

- Worked in an Agile team as primary functional/technical liaison for SDLC to build User Stories and assign task to align business needs for CMS Interoperability and Patient access final rule.
- Created technical specifications/BRDs for data migration tasks in a big data environment.
- Created requirement documentations for developers for data migration tasks from existing Apache Hadoop platform to cloud(Azure).

- o Gathered requirements for HL7 to FHIR interoperability across the Single Data Repository for healthcare data standardization.
- o Lead the FHIR API development/QA with accordance to US Core Specifications for various resource types such as Immunizations, Encounters, Observations, Vital Signs and Provenance.

OptumRx/UnitedHealth Group, Schaumburg, Illinois, United States
Data Analyst, Clinical Analytics and Reporting   *11/2019-07/2020*
- o Led POC project to setup Azure Health Data Services to implement DaVinci Payer Data Exhange(PDex) US Drug Formulary IG.
- o Acquired and manipulated historical pharmacy claims records (>1M+) on Netezza Data Warehouse using SQL/SAS Enterprise Guide to match with eligible end consumers for various processes.
- o Created and improved existing Business Requirement Documents/ Process Flow Diagrams and modified existing SAS codes and macros by implementing complex Data and Proc statements to account for the modifications.
- o Improved Standard Operating Procedures for business-critical processes and projects which directly impacted revenue greater than 30M $ over 3 months.
- o Managed ETL tasks like moving Data from IBM Netezza Data Warehouse to using SQL Server Integration Services (SSIS) and MySQL.

Aditya Birla Finance Limited, Mumbai, India
Data Analyst, Data Analytics/Data Science/ Product Management-Digital Lending   *04/2016 - 04/2017*
- o Optimized product features by A/B testing of online loan portals and apps to identify drop-off points and thus achieved a 14% reduction in drop-offs.
- o Implemented Logistic regression and Ensemble Learning algorithms for SME credit risk assessment that improved the accuracy of loan default prediction by 4%.
- o Created user stories for product features and ran Usability tests and UAT alongside business analysts.
- o Set up a Pre-Sales call center and led a team of 10 members to guide them to assist potential customers though the digital customer journey and find potential drop off points in the UI/UX.

HCRMS, Mumbai, India
Data Analyst, Data Analysis/Business Intelligence/Data Mining-Rewards Programs   *02/2015 - 03/2016*
- o Improved sales across the distribution channels by up to 7% by inventory and demand forecasting and applying predictive analytics.
- o Imported and manipulated data (>1M+ rows) from the data warehouse using complex SQL queries and cleaned and consolidated data using Tableau Prep for exploratory data analysis using Python/R.
- o Increased channel partnerships by 20% by utilizing interactive sales dashboard with Tableau to locate untapped markets.

TECHNICAL SKILLS

- o Data Science/Machine Learning: EDA, Regression Analysis, Classification, Decision Trees, Random Forests, Clustering, NLP, PCA, Bayesian Methods
- o Statistical analysis: Hypothesis testing, ANOVA, Design of Experiments
- o Programming/Query Languages: C, C++, R, Python, SQL, MySQL, PostgreSQL, VBA, SAS
- o Version Control: Git

- o R and Python Packages: Dplyr, Ggplot2, Caret, mlr, TensorFlow, Pandas, Matlplotlib, Seaborn, Scikit learn, NumPy, NLTK
- o Business Intelligence/Reporting Tools: Microsoft PowerBI, Tableau, Qlikview
- o Computational Notebook: Jupyter
- o Operations Research/Supply Chain: Linear and integer programming, Network flow models, Inventory/Demand Forecasting
- o EHR knowledge: EPIC, Cerner, Allscripts

EDUCATION

UNIVERSITY OF SOUTH FLORIDA, TAMPA, FLORIDA
Master of Science, Industrial Engineering
Focus on Analytics, Statistical Design Models, Probabilistic System Analysis, Operations Research, Supply Chain
MUMBAI UNIVERSITY, MUMBAI, INDIA
Bachelor of Engineering, Electronics and Telecommunications Engineering
Certifications:

Lean Six Sigma Green Belt Certified (IISE)