Clark Kinsey Joseph

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SUMMARY

Boston-based MBA Candidate and Healthcare Data Analyst specializing in Revenue Cycle and Operations. I engineer high impact data solutions for the finance, operations, and clinical research department. My portfolio displays projects that help drive revenue, optimize work flows, and support research.

TECHNICAL SKILLS

- **Healthcare Informatics:** HIPAA Compliance, PHI Data Handling, OMOP Common Data Model (CDM), OHDSI Tools (ATLAS), Synthea (Synthetic Patient Generation), MIMIC-III Demo Critical Care Database, Clinical Cohort Definition, ICD-9/10 & CPT Coding Concepts

- **Languages & Databases:** SQL(PostgreSQL, BigQuery, T-SQL, Microsoft SQL Server), Python (pandas, Seaborn), ETL Pipeline Development, Data Cleaning & Validation.

- **BI & Visualization:** Microsoft Power BI (Power Query, DAX, Data Modeling), Tableau, Excel (Pivot Tables, VLOOKUP), Dashboard Design

- **Tools & Platforms:** Git/GitHub, Postman (API Testing), Swagger, Salesforce, Jupyter Notebook, dbt, Snowflake

CERTIFICATIONS

SQL (Intermediate) Verified Skill - HackerRank (Validation of complex joins, subqueries, & aggregations) ● dbt Fundamentals | dbt Labs (2025) ● AWS Knowledge: Serverless (AWS Lambda, API Gateway, DynamoDB) ● Certified Revenue Cycle Representative (CRCR) - HFMA (In Progress) ● Microsoft Power BI Data Analyst Professional Certificate ● Google Data Analytics Certificate

PORTFOLIO PROJECTS

SEE MY FULL SOLUTIONS MENU AND LIVE DEMOS : Portfolio

OMOP cohort Study (PostgreSQL | SQL| OMOP CDM)

- Engineered a complete ETL pipeline to build a PostgreSQL OMOP database, populating it with 100k+ Synthea patient records
- Bypassed UI tools and wrote advanced SQL algorithms (CTEs, Window Functions) from scratch to build a research-grade cohort of 69 patients with 'Newly Diagnosed Type II Diabetes'
- Wrote a second characterization query to identify the "Top 10 Comorbidities", proving mastery of informatics and clinical data analysis

ICU Operations Dashboard (Power BI | DAX | Power Query)

- Built an executive level dashboard on the 1M+ row MIMIC-III Demo database to monitor hospital operations
- Wrote a single, high performance "Master" SQL query to join 5 tables, transforming a complex schema into a clean table for analysis
- Calculated 4 critical KPIs (ALOS, mortality, ER Wait time, total ICU Stays) to give leaders a real time tool to identify and fix issues

Revenue Cycle Dashboard (Power BI | BigQuery | SQL)

- Engineered a 2-page financial dashboard on a real-world claims dataset to analyze revenue loss
- Used Power Query to clean, transform, and map messy billing codes, creating a custom, "aging bucket" column

- Wrote 7 DAX measures to track total revenue lost and denial rate, identifying the teams and payers responsible for the most at-risk revenue

CHF Root Cause Analysis (Python | Pandas | SQL)
- Conducted an ad-hoc analysis in a Python (Jupyter) notebook to find the "why" behind Congestive Heart Failure readmissions
- Wrote an advanced master SQL query using CTEs and Window functions to build a targeted cohort of CHF patients from the MIMIC-III Demo database, pulling their full lab and demographic history
- Proved with a Seaborn box plot that High Creatinine (poor kidney function) was a top clinical predictor, providing an actionable insight for the quality team

PROFESSIONAL EXPERIENCE

Enel North America (Energy / Software Company)   July 2023 – January 2024
Boston, MA | **Application Support Intern**
- **SQL & Data Analysis:** Executed SQL queries to analyze CRM datasets and investigate system anomalies, identifying root causes for data discrepancies and improving overall account management accuracy by 20%
- **Process Automation:** Engineered an automated data synchronization process using Swagger API and Postman, eliminating manual data entry errors and ensuring real-time consistency across platforms.
- **Dashboard Development:** Designed executive-level dashboards in Salesforce and Excel to monitor monthly KPIs and ticket volume, reducing the time spent on manual reporting by 30%.
- **Technical Documentation:** Authored comprehensive technical documentation on Confluence for recurring issue tickets, optimizing the resolution workflow and increasing the support team's speed by 50%

EDUCATION

Bentley University McCallum Graduate School of Business, Waltham, MA
Masters In Business Administration, Business Analytics   January 2025 **-** May 2026

University of Massachusetts Boston, Boston, MA
Bachelors of Science, Information Technology   May 2024
Concentration**: Business Intelligence**
- Honors: Dean's Honors List 2022-2024 | Major GPA: **3.52**