

John Murray

Data analytics professional

About

Data analytics professional with proven technical skills, management experience, and a servant leadership mindset creating high-functioning teams that combine numbers and narrative to deliver stunning, actionable business intelligence solutions.

Contact

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Experience

Associated Research and Knowledge Specialists, LLC

Analytics Consultant, Sep. 2021 – current

- Developed and deployed an Azure-hosted, containerized API using FastAPI to support customer-facing analytics dashboards
- Engineered Azure-hosted IT infrastructure for automating, orchestrating and observing data pipelines using Prefect
- Leverage Azure Pipelines to automate CI/CD tasks including building Docker images, registering Prefect flows, executing integration testing, and deploying code to production environments
- Experiment with state-of-the-art tools, technologies, and frameworks to ensure the delivery of effective and efficient customer solutions

The Coca-Cola Company, Data & Analytics Services

Manager, Business Intelligence, May 2021 – Sep. 2021

- Led migration of legacy Alteryx ETL pipelines to Azure Databricks following a medallion architecture
- Led development of the Water Risk Management Power BI dashboard to identify bottling plants in distressed watershed regions
- Developed proof-of-concept CI/CD Azure Pipeline for promoting Databricks notebooks to testing and production environments

Becton, Dickinson and Company (BD), Software Technology Solutions

Manager, Decision Science & Visualization, Nov. 2020 – May 2021

- Led team of 10 data analysts and BI developers to develop, deliver, and maintain Power BI, Tableau, and ThoughtSpot dashboards serving a wide-range of internal (sales, marketing, account management, product adoption) and external (CDC, pharmaceutical companies, hospitals/medical centers) customers
- Ensured continuous delivery of value-added analytics by creating and implementing analytics road maps
- Promoted professional development and competency improvement of direct reports through career blueprints and stretch assignments

BD, MedMined Data Science & Analytics

Data Science Team Lead, Mar. 2019 – Nov. 2020

- Managed day-to-day operations of MedMined's Atlanta-based data science and analytics team of data scientists, data analysts, BI developers, and biostatisticians
- Developed and executed process improvement initiatives
- Implemented customer request portal and project management framework using Jira
- Selected to participate in MedMined's Leadership Development program (completed in 2019)

BD, BD Insights Research & Analytics

Data Management Consultant, Oct. 2016 – Mar. 2019

- Executed novel data monetization strategy through partnership with pharmaceutical companies to deliver novel insights of antimicrobial resistance patterns, trends, and projected national prevalence; responsible for all data-related activities including database/schema design, ETL, data enrichment and analysis, deliverable creation
- Partnered with BD's Medical Affairs research team to apply peer-reviewed insights (e.g. predictive models, risk factors) to production data and customer-facing software
- Collaborated with analysts and SMEs across BD business units to enrich BD Insights' product offerings by introducing new data elements and outcome measures
- Created text classification machine learning model to standardize and categorize free text financial information, including primary payers and discharge dispositions

- Developed web scraping routine to define appropriate antimicrobial spectrum-pathogen relationship, reducing pharmacist burden and improving analysis accuracy

BD, MedMined Operations Analytics

Senior Analyst, Oct. 2012 – Oct. 2016

- Implemented SQL Server Reporting Services (SSRS) to provide unit-level HAI drilldowns and performance trends to all MedMined customers (6,000+ units); scripted logic to calculate metrics including benchmarks, infection rates, and top organisms; data tables and reports updated on a quarterly basis via stored procedure execution
- Created and maintained real-time QlikView dashboard of customer support requests and issues, allowing customer support manager to prioritize open cases and track departmental performance over time; data updated via execution of SQL scripts against ManageEngine database
- Utilized SQL Server Integration Services (SSIS) tasks to extract data across multiple production servers, automate PDF report generation, and standardize data using fuzzy matching transformation

Education

Georgia Institute of Technology, Atlanta, Georgia

Master of Science Analytics, expected 2023

University of Alabama at Birmingham, Birmingham, Alabama

Master of Public Health, Healthcare Organization & Policy, August 2012

Bachelor of Science, Finance, May 2012

Certifications

[Microsoft Azure Fundamentals](#) (AZ-900), issued August 2021

Technical Skills

Microsoft Azure (databases, web apps, container registries, virtual machines, storage accounts)

Data modeling, database design, data wrangling, dbt, SQL (Microsoft SQL Server, PostgreSQL), MongoDB

Programming, Python (pandas, numpy, nltk, scikit-learn, seaborn, matplotlib), R (tidyverse, caret), JavaScript, machine learning

Automation, Prefect, Azure Pipelines, CI/CD

Data visualization, Dash, Streamlit, Power BI, Tableau, ThoughtSpot

Web development, FastAPI, React.js, Next.js, Chakra UI, nivo, deck.gl

Excel, VBA

Docker, Docker Compose

Git