

Colin Roberts

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DATA ANALYTICS / DATA SCIENCE / BUSINESS INTELLIGENCE

I am a data analyst with a strong foundation in both front-end and back-end data visualization, leveraging various programming languages to effectively visualize and interpret complex datasets. I thrive in analytical problem-solving and adeptly manage multiple projects simultaneously to meet critical deadlines.

With many years of experience in data cleaning, I have collaborated with teams of professionals, providing consulting services and spearheading complex reports for cost-efficiency efforts under tight deadlines. I have worked with major companies such as GM and Toyota, among others. My technical expertise includes advanced proficiency in SQL, Power BI, Python, JavaScript, Tableau, Pivot Tables, Excel, VBA Scripting, and Machine Learning.

PROJECTS

<https://github.com/colinroberts-data-analytics-portfolio>

PORTFOLIO SITE

<https://roberts-data-intell.github.io//roberts-data-intell.io/index.html>

PROFESSIONAL EXPERIENCE

2023 – 2024

Position: Data Analyst & Power BI Engineering Expert

Company: Toyota

Power BI Expertise: Developed sophisticated reports and dashboards that delivered strategic business forecasts. Provided expert consulting to resolve complex legacy issues and optimize reporting processes. Created SQL queries to extract and link data from databases, facilitating table creation and data integration. Developed calculated columns and complex DAX measures to leverage functions for ad-hoc reporting.

Consulting Services: Delivered expert consulting, addressing and solving complex data and reporting challenges.

2016 - 2023

Position: Power BI Developer and consultant

Company: Bloom Business Solutions

SQL Expertise: Designed and optimized databases using SSMS/SSRS, defining efficient table structures and relationships. Enhanced data quality through cleaning and transformation, ensuring compliance and readiness for SQL queries. Implemented indexes to improve data retrieval speeds and optimized queries to boost database performance. Automated report generation, providing consistent insights into key metrics and KPIs.

Analytical Innovation: Pioneered the integration of Power BI, developing actionable reports, dashboards, and analytics that directly supported client business growth strategies.

Database Leadership: Led the design, development, and management of client-focused relational databases, ensuring robust and scalable data solutions.

Boomi Integration: Designed, developed, tested, and managed integration solutions using the Dell Boomi platform, effectively connecting systems, applications, and data across organizations.

Strategic Business Partnership: Collaborated closely with clients to synthesize visual report requirements, integrate branding insights, and support strategic initiatives, including guiding businesses through critical processes such as LLC acquisitions.

EDUCATION

2021 – 2023

Vanderbilt University

Degree: Bachelor of Science in Computer Science & Data Analytics.

Proficiencies & SQL Skills: Extensive experience in Data Analytics, SQL, PostgreSQL/pgAdmin, MongoDB, SSMS, SSRS, ETL processes, Python (including NumPy, SciPy, Pandas, Matplotlib), APIs, Tableau, R programming, Hadoop, and Machine Learning. Skilled in designing and structuring databases by defining tables and relationships for efficient and logical data storage. Proficient in cleaning and transforming data to ensure compliance and query readiness, creating indexes to accelerate data retrieval, and optimizing queries to enhance database performance. Expertise in automating report creation to deliver regular insights into key metrics and KPIs.

2012 -2016

Art Institute of Pittsburgh

Degree: Associate of Science in Computer Science & Data Analytics.

Specialized Training: Advanced Data Analytics with expertise in leveraging tools such as SQL, Python, and Power BI.

SKILLS & EXPERTISE

Power BI Mastery: Expertise in DAX architecture, business trend analysis, and intuitive interface design.

Database Engineering & Analysis: Skilled in designing and managing databases with a focus on efficient data storage and logical table relationships.

SQL Proficiency: Strong capabilities in designing databases, optimizing queries, and automating reports for actionable insights. Expertise in data cleaning, transformation, index creation, and performance enhancement.

RDBMS Excellence: In-depth knowledge of database design and management with DBA concepts across MySQL, PostgreSQL, and IBM Db2.

Database Innovations: Proficient in advanced SQL queries, including nested queries, JOINS, and stored procedures.

Big Data & NoSQL: Experienced in working with MongoDB, Cassandra, Cloudfantasy, Hadoop, and Apache Spark.

Data Pipelines: Expertise in designing and managing data pipelines using Bash, Airflow, and Kafka, including architecting and deploying data warehouses.

Advanced Data Tools: Proficient in Python, R, C++, SQL, Pandas, JSON, Kafka, Airflow, CRON jobs, and Bash/Shell scripting.

PROFESSIONAL CERTIFICATIONS

Accreditations from IBM

- Power BI Advanced Development
- SQL and Data Analysis read and update
- Data Warehousing & BI Analytics
- Mastery in NoSQL Databases
- Big Data Expertise with Spark & Hadoop
- Big Data Expertise with Spark & Hadoop
- Data Engineering & Machine Learning using Spark

