





SPENCER KNOLL

DATA ANALYST

SUMMARY

Data professional with 12+ years of experience in analytics, data governance, and process optimization. Skilled in SQL, Python, Tableau, and data modeling, with a focus on building dashboards, improving data quality, and driving efficiency. Experienced in cross-functional collaboration and translating technical findings into actionable insights. Proven ability to investigate complex data systems, perform root cause analysis, and document data flows and lineage.

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EDUCATION

BACHELOR OF SCIENCE IN
BIOSTATISTICS
The Pennsylvania State University
2008 – 2012

EXPERIENCE

DATA ANALYST, MANAGER AT UNITED STATES DEPARTMENT OF COMMERCE
Remote / April 2022 – Present

- Direct team of data analysts to develop and implement SQL and Python solutions for quality and timely publication of vital national datasets that measure job creation and firm startups, disaggregated by geography, industry, and establishment/firm characteristics.
- Create data visualizations such as the BDS Explorer and facilitate data exploration through interactive charts, maps, and tables.
- Analyze and optimize data review processes for SAS datasets with hundreds of variables and millions of records using PROC SQL to identify trends, anomalies, and correct outliers in a 45-year time series.
- Identify gaps in repeatable processes for annual time series reproduction and develop a 10-step data processing framework to streamline input/output and prepare files for website publication and API integration used by economists and media outlets.
- Advise team members, programmers, and project managers on data selection, microdata improvements, new data sources, and dataset usability.
- Oversee communications and respond to inquiries from the media and government agencies.

SKILLS

Python
SQL
R
SAS
Team-player
Tableau
Power BI
Google Analytics
Advanced Excel
Snowflake

CERTIFICATIONS

Python for Data Science
Machine Learning
AWS Certified Cloud Practitioner
Project Management Certificate

DATA ANALYST AT UNITED STATES DEPARTMENT OF COMMERCE
Washington, DC / July 2012 – April 2022

- Developed automated Python, SAS, and SQL scripts that reduced data review time and increased operational efficiency.
- Conducted advanced data cleaning and validation using regression, ratio estimation, and forecasting techniques.
- Managed quality control for the Annual Capital Expenditures Survey to guarantee adherence to industry standards and eliminating data discrepancies.