Data Architect

Posted: July 1, 2022

About the Job

Impact Research is looking for a talented data architect to join our growing company. In this role, you will be responsible for the development of database solutions to ensure company information is stored effectively and securely. The position requires collaborative work with a diverse team of engineers, statisticians and data scientists to support multiple ongoing government and private industry studies. In this role, you will be responsible for making data integration decisions and seeing them through to completion. This is not a junior position.

About the Company

Impact Research is a small business located in Columbia, Maryland that specializes in transportation safety engineering and data analysis. We are a highly motivated company working on impactful projects in the auto safety and railroad safety industry.

Responsibilities

- Develop database solutions to store and retrieve company information
- Analyze structural requirements for new software and applications
- Migrate data from legacy systems to new solutions
- Design conceptual and logical data models and flowcharts
- Improve system performance by conducting tests, troubleshooting and integrating new elements
- Define security and backup procedures
- Coordinate with the Data Science department to identify future needs and requirements

Basic Qualifications

- Education: Bachelor's degree in Computer Science, a related field or equivalent experience
- Proven work experience as a Data Architect, Data Scientist, Data Analyst or similar role
- In-depth understanding of database structure principles
- Awareness of data architecture strategies such as data lakes, warehouses, marts, and similar
- Experience gathering and analyzing system requirements
- Knowledge of database scaling techniques
- Expertise in SQL
- Knowledge of file storage formats (e.g. parquet, json, csv)
- Proficiency in MS Excel
- Proven analytical skills
- Problem-solving attitude

Desired Qualifications

- Experience working with ETL techniques and frameworks such as Airflow, Spark
- Familiarity with data visualization tools (e.g. Tableau, D3.js and R)

- Ability to troubleshoot ETL technologies or database scripts
- Experience with integration of data from multiple data sources
- Experience with container systems such as Docker
- Experience with NoSQL databases such as DynamoDB, MongoDB or Cassandra
- Experience working within the AWS eco-system

For more information, email or call: contact@impactresearchinc.com, Phone: (410) 988-4107

*COVID-19 vaccination required.