



Senior Data Engineer

TeleGeography

Washington, D.C.

TeleGeography, a specialty market research firm that produces authoritative, data-driven analysis of the global telecommunications industry, is seeking an experienced Senior Data Engineer. The Senior Data Engineer will be tasked with the design and maintenance of TeleGeography's proprietary databases and the development of new digital products, applications, visualizations, and analytics for its suite of syndicated research products and custom consulting work. This is an exciting opportunity for hands-on work, designing powerful tools and data products from the ground-up both for internal analysts and external customer stakeholders.

Responsibilities

- Develop and design interactive and data-rich visualizations, dashboards, and applications that can be incorporated into existing or future syndicated research lines
- Maintain existing TeleGeography databases and data pipeline, and continue to develop our existing data management codebase
- Collaborate with analysts, IT systems, and sales teams to improve data models, increase data accessibility via internal and external products, and promote data-driven workflows across the organization
- Process, normalize, validate, and load new data and intelligence procured by our analyst team from a wide variety of sources, and produce regular analytics from those data streams
- Implement systems to continuously monitor and ensure data integrity, and troubleshoot data errors to improve data quality for client stakeholders
- Spearhead and promote workflow automation initiatives company-wide
- Write and maintain rigorous application documentation and written technical resources, both for technical and non-technical audiences
- Works closely with all teams to develop long-term strategy for data platform design and product architecture
- Serve as technical SME for consulting and/or custom software projects

Qualifications Required

- Bachelor's and/or Master's degree, preferably in computer science, data analytics, mathematics, engineering, or some other related technical discipline.
- Professional industry experience in data engineering or software development in a live, production environment
- Deep knowledge of relational database principles and architecture
- 4+ years of Python development experience
- 4+ years of SQL/Postgres development experience
- Proficiency in developing applications and data pipelines in cloud service environments, like AWS, GCP, Azure, Heroku
- Experience designing/deploying web apps within an MVC framework such as Rails or Django
- Comfort using version control systems (e.g., Git) in a team development environment
- Eagerness to dive into new projects, learning other coding languages or techniques, as needed, to achieve the desired outcome
- Professional communication skills, to correspond about complex topics with both technical and non-technical audiences
- Analytical skills to understand the aims of the research and analyst teams, and how those needs can be met utilizing our existing datasets
- Ability to take key requirements from an internal or external client, and propose a technical solution
- High degree of intellectual curiosity, and sense of personal ownership in their projects

Bonus Qualifications

- Background in data science and machine learning concepts
- Development experience in R
- Development experience working with (or building) RESTful APIs
- Visualization experience with the Plotly suite of tools
- Background or interest in telecommunications, maps, and international economies and cultures

About TeleGeography

TeleGeography is a boutique firm with a global scope covering a critical, dynamic industry. It offers a collegial, intellectual atmosphere with a bit of quirky charm in an energizing Thomas Circle location in Washington, DC. TeleGeography is a remote-friendly workplace, and this position is location-flexible (within the US) for candidates located outside the DC-area.

TeleGeography also offers its employees a generous benefits package including:

- 401(k) Plan (effective after 3 months of service)

- Healthcare, dental and vision coverage (effective the first of the month following 60 days of employment)
- \$20,000 Basic Life and AD&D Insurance Coverage
- 3 weeks paid vacation (5+ years = 4 weeks)
- 3 days sick leave per year

If you're ready to put your skills to work for a team dedicated to authoritative industry analysis, we want to hear from you.

Send your resume and cover letter to recruitment@telegeography.com.