

# Data Engineer

## Job Description

### Who We Are

We believe that we are better together, and at Tripadvisor we welcome you for who you are. Our workplace is for everyone, as is our people powered platform. At Tripadvisor, we want you to bring your unique perspective and experiences, so we can collectively revolutionize travel and together find the good out there.

TripAdvisor, the world's largest travel site, operates at scale with over 500 million reviews, opinions, photos, and videos reaching over 390 million unique visitors each month. We are a data driven company that leverages our data to empower our decisions. Tripadvisor is extremely excited to play a pivotal role in supporting our travelers.

Our data engineering team is focused on delivering TripAdvisor's first-in-class data products that serve all data users across the organization. As a member of the Data Platform Enterprise Services Team, you will collaborate with engineering and business stakeholders to build, optimize, maintain, and secure the full data vertical including tracking instrumentation, information architecture, ETL pipelines, and tooling that provide key analytics insights for business-critical decisions at the highest levels of Product, Finance, Sales, CRM, Marketing, Data Science, and more. All in a dynamic environment of continuously modernizing tech stack including highly scalable architecture, cloud-based infrastructure, and real-time responsiveness.

TripAdvisor provides a unique, global work environment that captures the speed, innovation and excitement of a startup, at a thriving, growing and well-established industry brand.

We take pride in our data engineering and are looking for a talented and highly-motivated engineer with a passion for solving interesting problems to add to our high-performing team.

### What You'll Do

- Providing the organization's data consumers high quality data sets by data curation, consolidation, and manipulation from a wide variety of large scale (terabyte and growing) sources.
- Building first-class data products and ETL processes that interact with terabytes of data on leading platforms such as Snowflake and BigQuery.

- Developing and improving Foundational datasets by creating efficient and scalable data models to be used across the organization.
- Working with our Data Science, Analytics, CRM, and Machine Learning teams.
- Responsible for the data pipelines' SLA and dependency management.
- Writing technical documentation for data solutions, and presenting at design reviews.
- Solving data pipeline failure events and implementing anomaly detection.

## What We Seek

### Education

- Bachelor's degree in Computer Science or related field

### Work Experience

- 3+ years data engineering experience

### Tech Experience

- Experience with technologies and toolings associated with relational databases (PostgreSQL or equivalent) and data warehouses (Snowflake, BigQuery, Hadoop/Hive, or equivalent).
- Experience with writing and optimizing SQL
- Experience with data modeling and ETL/ELT design, including defining SLAs, performance measurements, tuning and monitoring.
- Experience building/operating highly available, distributed systems of data extraction, ingestion, and processing of large data sets
- Experience with programming languages such as Python, Java and/or Scala
- Knowledge of cloud data warehouse concepts

### Communication/people skills

- Excellent verbal and written communication skills
- Strong interpersonal skills and the ability to work in a fast-paced and dynamic environment
- Ability to make progress on projects independently and enthusiasm for solving difficult problems

## Interview Process

All candidates will go through TA's greenhouse process. We should try to find resources from Affine first.

**Format:** Resume review - Initial screen - Technical - Culture Fit/Soft Skills

## Resume review

**Who:** Candida D'Mello

## Initial screen

**What:**

A mix of technical and behavioral interview. The main goals are:

- to decide if we want to bring the candidate in for a second round of interviews.
- to understand the candidate's background and experiences.
- to understand the candidate's knowledge and level of SQL.

**Technical Questions:** [Data Engineering Interview Guideline](#)

**Who:** Anirudha Nanda

**Duration:** 30min

## Technical

**What:**

To assess the candidate's competency in all of the following areas:

- SQL, both reading and writing
- ETL and data warehouse design
- Problem solving
- Technical acumen and engineering competency
- Big data and cloud experience

**Technical Questions:**

- [Interview\\_question\\_conversion\\_rate\\_template\\_flow](#)
- [Data Engineering Ability / Design / Tech Interview Questions](#)

**Who:** Charles Deangelis

**Duration:** 60min

## Culture Fit/Soft Skills

To assess the candidate's competency in these areas:

- Resume deep dive
- Communication skills
- Cultural contribution & TA fit

**Technical Questions:** [Data Engineering Interview Guideline](#)

**Who:** Candida D'Mello

**Duration:** 60min