

Aletia Trepte

San Diego, CA | (619) 707-8130 | aletia.trepte@gmail.com

Summary: Adaptable **Data Engineer** with experience building and monitoring scalable pipelines that process up to 1TB daily. Proficient in multi-paradigm programming with experience across civic, financial, and education domains. Committed to continuous learning and building reliable data systems.

Technical Highlights

Languages: Python, SQL, JavaScript

Data Engineering & Analytics: Distributed data processing (PySpark, Delta Tables), SQL-based analytics and internal scripting, data validation and reconciliation, exploratory data analysis (EDA)

Databases & Storage: PostgreSQL/PostGIS, MySQL, MongoDB, cloud object storage (AWS S3)

Pipelines, APIs & Automation: REST API-driven ingestion pipelines, workflow automation, external data integration, web scraping, scheduled data jobs

Enterprise Platforms & DevOps: Workflow monitoring and operational debugging, formal code review and structured issue tracking, CI/CD pipelines, production deployment in permissioned environments, Git, GitHub Actions

Data Formats & Tooling: JSON, CSV, XML, Parquet, delimited and flat files, spreadsheet-based data cleanup and reconciliation, Jupyter, Bash, YAML

Visualization & Reporting: Sigma, Google Sheets API, Python-based dashboards

Relevant Projects & Experience

Left Field Labs — Data Engineer

Remote, USA · 2024 – Present

- Supported production analytics workflows through SQL-based investigation, data validation, and reconciliation across environments.
- Monitored and debugged data workflows, coordinating fixes via structured issue tracking and code review processes.
- Built and modified Lit-based web components integrated with CMS-driven content.
- Implemented responsive UI features using Tailwind CSS and Eleventy (11ty).
- Debugged cross-browser rendering issues and accessibility behaviors (ARIA, keyboard navigation).

Hack for LA — Civic Data Contributor

Remote, USA · 2022–Present

- Built data ingestion processes of Los Angeles parking ticket data, using PostgreSQL GIS for spatial data.
- Developed microservices-based architecture using FastAPI for scalable civic data access and testing workflows.

Data Engineer — Hope View

San Diego, CA · 07/2024 - 08/2024

- Implemented Test Driven Development practices and persistent storage with Core Data in Swift iOS app.
- Built modular request handling using Swift RequestBuilder and DataFetcher to retrieve backend data via REST API from Back4App.
- Structured API-driven data persistence and schema relationships in CoreDataHelpProcessor.

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Data Engineer — BondCliQ

Remote, USA · Dec 2022 – Apr 2024

- Developed scalable ELT pipelines in Databricks with PySpark, SQL, and Delta Tables to process ~1TB of financial data daily.
- Developed data ingestion pipelines to extract data from various API sources and load it into AWS S3 buckets.
- Conducted EDA and delivered insights through Sigma dashboards and Python-based reports.
- Built real-time observability tools for monitoring data pipeline performance, latency, and failure points.

Data Analyst Intern — BondCliQ / Data Glacier

Remote, USA · Jul 2022 – Dec 2022

- Performed EDA on bond trading data identifying anomalies and modeling risk exposure.
- Built reusable SQL models on Delta Tables to support analytics teams across the organization.
- Documented technical processes and collaborated closely with engineers and analysts.

Technical Education and Communication

Engineering & CS Teacher

San Diego, CA · Oct 2017 – June 2025

- Taught computer science, programming, and data fundamentals (Python, JavaScript, HTML/CSS) in project-based classroom settings.
- Known for translating complex technical concepts clearly and working effectively across diverse audiences.

Education & Credentials

- **B.S. in Applied Mathematics**, San Diego State University — GPA: 3.5
- **dbt Fundamentals Badge**, dbt Labs — 2025
- **Google Data Analytics Certificate** — Feb 2022
- **CTE Credential: Information & Communication** — Exp. 2026

Associations

- **Computer Science Teachers Association (CSTA)** — Member since 2015
- **Hack for LA** — Active contributor since 2022