

Aletia Trepte

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

SUMMARY OF QUALIFICATIONS

- **Software Engineer and generalist** experienced building and supporting **data pipelines, analytics**, production applications, APIs, **automation workflows**, and **data-backed systems**
- Strong experience with **Python, SQL, REST APIs, databases, and Git**, developing integrations and systems across **enterprise applications** and data engineering environments
- Production engineering experience spanning **API integration, automated testing, debugging, data validation, monitoring, and diagnostics**, including systems processing approximately **1 TB daily**
- Experienced with **Docker, Linux, CI/CD, cloud infrastructure, and automated testing**, with growing experience in **AI-enabled applications, data governance, and document-processing systems**

RELEVANT EXPERIENCE

Left Field Labs — Application Engineer | Remote | June 2025– June 2026 (role impacted due to RIF)

- Supported a high-traffic global event by building and enhancing production Google I/O 2026 web experiences using TypeScript, Lit, Tailwind CSS, and Eleventy
- Delivered accessible user experiences by implementing keyboard interactions, ARIA behavior, reduced-motion support, responsive layouts, and reusable component patterns
- Enabled reliable measurement of user interactions and event traffic by implementing and validating analytics instrumentation across Google I/O web experiences
- Improved sustainability reporting accuracy by reconciling five years of historical enterprise data, validating ETL transformations, and resolving data discrepancies during a large-scale migration
- Updated record logic and pipeline reliability by developing SQL validation queries, reconciling enterprise datasets across Google internal and other enterprise systems, resolving workflow failures, and verifying snapshot integrity

App Engineer — Hope View | San Diego, CA | Jul 2024 - Aug 2024 (contract)

- Established local data persistence and retrieval by implementing Core Data storage and schema relationships
- Built modular REST API integrations and reusable components to support client-server communication
- Applied Test-Driven Development (TDD) practices to improve code quality, reduce regressions, and support long-term application stability

BondCliQ — Data Engineer | Remote | Jul 2022–Apr 2024 (promoted from analyst intern to data analyst engineer)

- Processed approximately 1TB of financial market data daily by building and maintaining scalable ELT pipelines in Databricks using PySpark and Delta Tables
- Reduced duplicate and mismatched bond data by approximately 20% by improving matching and ranking logic within a production data pipeline
- Improved pipeline reliability by developing observability and monitoring tools that proactively identified latency, failures, and data quality issues before impacting downstream analytics
- Unified data from REST APIs, AWS S3, and internal sources into workflows supporting stakeholder reporting and business analysis
- Increased operational visibility and accelerated failure detection by developing dashboards to monitor SFTP file transfers and production data workflows

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SELECT SOFTWARE ENGINEERING PROJECTS

Environmental Monitoring Platform — [link](#)

- Automated continuous environmental data collection and validation by deploying a Dockerized Python backend integrating multiple APIs
- Enabled real-time and historical air-quality analysis through automated Python pipelines, MongoDB persistence, and a Streamlit dashboard
- Containerized and deployed backend services on Linux, implementing scheduled data collection, API integrations, and data validation workflows

Rubric Agent - Open Source AI Data Platform — [link](#)

- Transforms educational resources into structured datasets for AI retrieval and search through an open-source Python ingestion and normalization platform
- Improved data reliability and extensibility by developing reusable ingestion pipelines with metadata extraction, duplicate detection, cloud object storage, and provenance tracking
- Enables expansion to new document sources and formats through interchangeable collectors and modular processing stages

TECHNICAL SKILLS

Languages: Python, SQL, TypeScript, JavaScript, Bash

Data & Databases: Databricks, PySpark, Delta Lake, PostgreSQL/PostGIS, MongoDB, ETL/ELT, Data Modeling

Software & APIs: REST APIs, Flask, Git, Automated Testing, TDD, Client-Server Architecture

Cloud & Enterprise: AWS S3, Salesforce, Docker, Linux, GitHub Actions, CI/CD

AI & Automation: AI-Assisted Development, Document Processing, Data Normalization, Workflow Automation

EDUCATION & CREDENTIALS

B.S. Applied Mathematics — San Diego State University (GPA: 3.5)

dbt Fundamentals — dbt Labs, 2025

Google Data Analytics Certificate — 2022

ASSOCIATIONS

Computer Science Teachers Association (CSTA) — Member since 2015

Hack for LA — Active contributor since 2022