

Anand Rinchinjugder

Data Engineer

Specialized experience including leading the test, design, development, implementation, and optimization of enterprise data engineering and analytics solutions in Python; developing and optimizing SQL-based (T-SQL, PL/SQL) ETL pipelines for large datasets; and communicating complex technical information to diverse stakeholders to support IT modernization initiatives.

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WORK EXPERIENCE

Data Analyst Intern

Tacit Power / Georgia Transmission Corporation

07/2025 - Present

Remote. Tucker, Georgia

Responsibilities

- Led development and testing of an end-to-end data engineering and analytics platform processing 130M+ SQL records in an air-gapped environment.
- Developed and optimized complex SQL queries utilizing indexed primary keys, range filters, joins, aggregations, and metadata parsing to minimize database load.
- Designed and optimized SQL ETL pipelines for large-scale telemetry data extraction, transformation, and analysis.
- Built a Python-based analytics engine performing baseline vs current comparisons, threshold validation, device health scoring, and anomaly detection using Pandas.
- Implemented automated PDF report generation and interactive front-end filtering for electric stations, lines, devices, and date ranges using streamlit.
- Developed scalable solutions using chunked queries, caching, and modular architecture to ensure performance and reliability.
- Translated complex analytics into executive-ready dashboards and reports, supporting data-driven operational decisions.
- Designed and executed system-level test cases, implemented structured logging (INFO/DEBUG/WARNING/ERROR), validated error handling, timeout behavior, and fallback mechanisms to ensure system resilience.
- Built interactive dashboards supporting incident analysis, SWR monitoring, silent device detection, and maintenance tracking with Time-window filtering (daily, weekly, monthly) using streamlit and plotly.

EDUCATION

M.S. Data Science

Regis University

01/2024 - 05/2026

Denver, CO

Grades

- 3.8 GPA

B.S. International Economics and Trade

East China University of Science and Technology

09/2019 - 08/2023

Shanghai, SH China

SKILLS

Data Engineering: Python, ETL, Pandas, Numpy, Hadoop, Spark, Bash

Database: PL/SQL, T-SQL, SSMS, Query optimization, Indexing, Complex Joins, CTEs, Window Functions

Big Data: 130M+ row datasets, Batch Processing

Visualization & Reporting: Matplotlib, Seaborn, Streamlit dashboards, Executive reporting

Automated Systems Engineering: Logging, QA, Testing, Configuration management

Security & Scalability: Secure DB access, Caching, Performance optimization

Testing: CI/CD pipelines, GitHub Actions, Unit testing, Regression testing

PERSONAL PROJECTS

Car Detection and Tracking System using YOLOv8, OpenCV, Python on Github

- Developed a real-time object detection system to identify and track vehicles using YOLOv8.
- Implemented object tracking across video frames with OpenCV.
- Optimized the detection pipeline for speed and accuracy using GPU acceleration.
- Visualized object trajectories and counts for potential traffic analysis applications.

LANGUAGES

Mongolian
Native or Bilingual Proficiency

Chinese
Professional Working Proficiency