

Andrew Hinshaw

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DATA ANALYST SUMMARY

- Data Analyst with 4+ years experience designing, implementing, and monitoring software solutions to analyze and report on complex business problems
- Collaborated with engineering teams, business leaders, and end users at Calpine Energy Solutions to resolve dozens of systemic data issues by using exploratory data analysis to find patterns and identify root causes of issues
- Reduced manual reporting input at Upstream by 12+ hours per week by implementing automated business systems using Python, SQL, and other technologies

SKILLS

Python · SQL (MySQL, SQLite, SQL Server, DuckDB) · NoSQL (MongoDB, Redis) · RESTful APIs · Confluence & Jira · Excel · Data Visualization & BI Tools (Mode Analytics) · Query Analysis & Optimization · Data Modeling · Data Warehousing (Azure) · ETL & ELT · Automation

EXPERIENCE

IS Business Analyst

Calpine Energy Solutions

January 2023 - Present

- Maintained direct and prompt communication with business users while running ad-hoc reports, solving critical data issues, and managing data update requests
- Prepared product updates in SQL Server, C#, XML to be promoted to production environments by conducting full coverage testing in development environments
- Created actionable roadmaps by working closely with product managers and end users to define goals and timelines
- Removed 10+ hours per week of manual data entry by implementing automated data processing pipelines

Data Analyst

Upstream, Inc.

February 2020 - December 2022

- Created clear and concise reports to provide valuable and actionable insights into key business performance metrics by using Mode Analytics and MySQL; Reports supported teams across the entire business including product management, operations, engineering, senior leadership, customer success, and others
- Used root cause analysis to investigate and resolve complex issues in a database with tens of millions of records
- Defined and took ownership of key business metrics by creating and organizing thorough technical documentation in Confluence including database schemas, reporting and business process outlines, and data flows
- Helped educate team members in other disciplines by providing technical training and guidance to help them gain a better understanding of our database structure and its models

Marketplace Analyst

Upstream, Inc.

August 2019 - February 2020

- Collected and analyzed sales, inventory, order, and other marketplace data to create solutions to maximize performance and growth of our online presence
- Helped senior leadership and team members in other departments make more informed business decisions by conducting A/B testing to compare marketplace strategies
- Utilized debugging and problem-solving techniques to fix large-scale marketplace issues
- Led projects through clear communication and organization by coordinating resources across multiple departments

PROJECTS

Congress Tweets Analysis

Code: github.com/andrewhinshaw/congress-tweets-streamlit

- Used Python and SQL to extract, transform, load, and analyze Congressional tweet data from 2017-2023
- Converted JSON data to parquet to reduce stored data footprint by 54%
- Retrieved and analyzed data using DuckDB to increase read performance over pandas

Spotify Song Analyzer

Code: github.com/andrewhinshaw/spotify-song-analysis

- Used Python to build an interactive notebook for downloading and analyzing songs from Spotify

- Demonstrated an exploratory analysis into using machine learning models to isolate harmonics and percussion to improve performance
- Visualized harmonic and percussive data using matplotlib to explain how analysis is performed

AndrewGPT & Project Portfolio

Code: github.com/andrewhinshaw/next-portfolio

Demo: andrewhinshaw.xyz/andrewgpt

- Built a chat interface using NextJS for querying an AI model about skills and experience outlined on my resume
- Used chroma's vector database and langchain's OpenAI connector for answering queries against the data outlined in my resume

Web3 NFT eCommerce App

Code: gitfront.io/r/andrewhinshaw/t3NyMSPTG9zM/gotangible/

Demo: gotangible.vercel.app

- Created a web3 application using React and NextJS that allows users to connect their ethereum wallet and create physical products from their owned assets
- Implemented a data pipeline using the OpenSea REST API to retrieve and display NFT data for the connected wallet including asset and collection metadata, images, etc.
- Added custom shopping cart functionality to implement payment via the Stripe Checkout REST API

CERTIFICATIONS

Microsoft Certified: Azure Data Fundamentals

May 2023

EDUCATION

San Diego State University

Bachelor of Science in Computer Science