SPENCER CALLISTER

Data Engineer

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Data engineer with experience in building scalable data pipelines, cloud infrastructure, and interactive dashboards. Proficient in AWS, Docker, and API integration, with a strong foundation in data wrangling, ETL processes, and machine learning. Seeking to leverage my technical skills and hands-on project experience to deliver high-impact solutions in a fast-paced, data-driven environment.

Education

Brigham Young University - Idaho

B.S. Data Science │ April 2025 │ Rexburg, ID

Experience

Legrande Health

Data Engineering Intern │ Jan 2022 - Aug 2024 │ Rexburg, ID
- Increased data ownership from 26% to 89% utilizing ETL processes, AWS services, and custom applications.
- Developed an interactive dashboard using Polars and Streamlit to visualize SMS data, tracking response times between agents and patients, opt-in success rates for automated reminders, and communication quality metrics to enhance patient engagement insights.
- Built and scheduled an AWS Lambda function to automate nightly API calls to Twilio, retrieving SMS data, storing it in S3 as Parquet files, and loading it into Amazon Redshift for analysis.
- Deployed an Ubuntu server on AWS EC2 using Docker to manage MongoDB collection listeners, wrangling data with Polars into Parquet files then stored in S3. Demonstrated skills in cloud infrastructure (EC2, S3), containerization (Docker), and data wrangling (Polars).
- Wrote a custom Node.js app using the Freshworks SDK and Twilio API to automate patient SMS invitations for reminder opt-ins, sending recurring reminders based on preferences. Utilized the Twilio SDK to capture patient responses and store them in Freshworks. Demonstrated expertise in API integration, Node.js, and automated messaging workflows.

Brigham Young University - Idaho

Data Science Lab Tutor │ Jan 2023 - Jul 2023 │ Rexburg, ID
- Led hands-on sessions, walking students through comprehensive data science projects, fortifying their grasp on statistical and machine learning principles.
- Mentored students in the proficient use of Python and R for adept data handling, visualization, and scrutiny.

Projects

- Led a 7-person team to develop a Flask dashboard showcasing sentiment analysis of news articles on companies within the semiconductor industry, using NLTK for natural language processing.

- Developed an RNN using TensorFlow to predict hurricane trajectories involving advanced feature engineering and model testing with cross-validation, underlining my proficiency in machine learning and data modeling.