

Charlie Brooke O'Hara

Staff Data Engineer

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Staff Data Engineer with expertise in architecting and implementing scalable data platforms to power analytics and machine learning workloads. Proven ability to design and establish foundational data infrastructure from the ground up, ensuring performance, scalability, and maintainability. Skilled in Python, PySpark, and SQL, with deep experience building cloud-based architectures on AWS and GCP. Strong communicator who excels at distilling complex technical concepts for diverse audiences, always keeping end goals, product requirements, and timelines in mind when building solutions. As a leader of LGBT+ employee resource groups, I am passionate about fostering a collaborative and inclusive team environment.

Databricks Certified: Machine Learning Associate (2024). AWS Certified: Machine Learning Specialty (2022), Data Analytics Specialty (2020), Solutions Architect Associate (2017).

PROFESSIONAL EXPERIENCE

Staff Data Engineer at StandardAI (2023 - present)

- Sole data engineer responsible for the creation of a data platform to power the company's core analytics product, implementing scalable pipelines, optimizing data flow, and ensuring data accessibility for internal and external users, directly driving the product's success.
- Automate machine learning operations by building end-to-end pipelines for data labeling and creating a centralized feature store to efficiently manage and serve training data, reducing manual intervention and accelerating machine learning model development.

Senior Data Engineer at Zapier (2021 - 2023)

- Led cross-functional collaboration with engineers to modernize the data stack, reducing technical debt and improving system performance, enhancing stakeholder trust and operational efficiency.
- Spearheaded the integration of data lake house architectures within a data warehouse-centric organization, enhancing data scalability, flexibility, and enabling advanced analytics capabilities.

Senior Data Engineer at Life360 (2019 - 2021)

- Pioneered the data engineering efforts as part of the inaugural team, establishing scalable infrastructure to support a mobile app with 25 million monthly active users, setting the stage for long-term growth.
- Engineered and maintained high-performance real-time streaming pipelines in Python using AWS Kinesis, Lambda, and DynamoDB, enabling data delivery to third-party partners within 30 seconds and driving 15% of company revenue.
- Partnered with data scientists to develop and deploy machine learning models using AWS SageMaker, ensuring real-time accessibility via AWS API Gateway for seamless integration into production services.

Data Engineer at Verve (2017 - 2019)

- Architected and deployed a robust data ingestion pipeline for third-party audience data, improving advertising targeting efficacy and driving more precise marketing strategies.
- Developed Python and Bash scripts to automate data pipelines with Hadoop Streaming, Apache Pig, and Snowflake, enhancing process efficiency and accelerating delivery timelines.

EDUCATION

University of California Santa Barbara - Bachelor's - Biology