

# EMMA ANDERSON

## Lead Data Engineer

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📍 Seattle, WA

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## WORK EXPERIENCE

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### Lead Data Engineer

#### Starbucks

📅 2022 - current 📍 Seattle, WA

- Created a recommendation engine using Apache Flink for building personalized marketing campaigns, leading to a 21% upsurge in click-through rates.
- Instituted monitoring and alerting systems using Prefect for data pipelines, reducing mean time to resolution for incidents by 37%.
- Devised a database backup and recovery procedure in Oracle Database for business systems, **minimizing data recovery time by 2 days** in case of system failures.
- Implemented a data serialization strategy using Apache Avro for Starbucks' mobile app data, decreasing data transfer size by 16% and improving app performance.

### Software Engineer

#### Boeing

📅 2019 - 2022 📍 Seattle, WA

- Built a MongoDB aggregation pipeline, expediting data retrieval times for aerospace component tracking from 4.8 seconds to 2 seconds.
- Developed a simulation environment with Docker Swarm for testing flight systems, boosting the test scenario coverage by 76%.
- Designed a fault-tolerant Scala-based messaging system for Boeing's air traffic control software, slashing message loss events by 83%.
- Engineered a data ingestion pipeline using Apache Impala, enabling the processing of 1.7TB of sensor data per day, a **24% uplift in data handling capacity**.

### ETL Developer

#### Tableau

📅 2016 - 2019 📍 Seattle, WA

- Optimized BigQuery storage and query costs by implementing best practices for data management, lowering monthly cloud expenses by \$29,463.
- Automated the conversion of raw data into a marketable data product, creating a new revenue stream that contributed \$514K+ in its first year.
- Streamlined the data warehouse loading process with Informatica, achieving a **97% success rate in first-run data accuracy** and minimizing post-load corrections.
- Formulated a proprietary algorithm for data anomaly detection within ETL processes, cutting down manual error checks by 43%.

## EDUCATION

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Bachelor of Science  
Computer Science and Engineering  
**University of Washington**

📅 2012 - 2016

📍 Seattle, WA

## SKILLS

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- Apache Flink
- Google BigQuery
- Informatica PowerCenter
- Prefect
- MongoDB
- Docker Swarm
- Oracle Database
- Apache Avro
- Apache Impala
- Scala