Elena Kowalczyk

Senior Data Engineer

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Experience

2021–Present **Senior Data Engineer**, *Orbital Analytics*, Seattle, WA
Lead the team rebuilding the event-ingestion pipeline onto Kafka and dbt, cutting p99 latency from 40s to under 3s at 200M events/day. Mentor two junior engineers and own the on-call rotation for the data platform.

2018–2021 **Data Engineer**, *Northlight Retail*, Portland, OR
Built the warehouse's incremental-load framework on Airflow and Snowflake, replacing a nightly full-refresh job that regularly missed its SLA.

2016–2018 **Software Engineer**, *Northlight Retail*, Portland, OR
Shipped the inventory-forecasting service consumed by store replenishment; first production use of the company's internal ML platform.

Education

2014–2016 **MSc in Computer Science**, *University of Washington*, Seattle, WA
Thesis on approximate query processing over streaming data.

2010–2014 **BSc in Computer Science**, *Oregon State University*, Corvallis, OR

Skills

Languages Python, SQL, Scala, Go
Data Kafka, Airflow, dbt, Snowflake, Spark
Infrastructure Terraform, Kubernetes, AWS

Publications

2020 E. Kowalczyk, R. Ferreira. *Approximate Aggregation over Bounded-Memory Streams.* SIGMOD Industrial Track.

Languages

Polish Native
English Fluent

Interests

Ultramarathon running, modular synthesis, keeping a home Kubernetes cluster no bigger than it needs to be.