

# ALEX HUGGLER

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## SUMMARY

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Senior Data Engineer · PySpark · Databricks · Delta Lake · SQL

Senior data engineer with 6 years at AT&T building production PySpark and Delta Lake pipelines that power nationwide fraud investigations and a \$2.2B forecasting portfolio. Owner of an Azure Databricks platform spanning billing, device, and authentication data with daily and intraday SLAs. Microsoft Certified: Azure Data Engineer (DP-203) and Azure Data Scientist (DP-100). Open to data engineering, analytics engineering, and platform IC roles across remote, hybrid, or onsite teams.

## EXPERIENCE

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**AT&T Inc. — Dallas, TX**

***Advanced Analytics - Global Fraud Management***

March 2023 – Present

- Built and maintained production PySpark pipelines on Azure Databricks across Delta Lake tables, curating billing, device, and authentication data that powers nationwide fraud investigations and downstream reporting.
- Held daily and intraday SLAs by tuning cluster sizing, partitioning, caching, and Delta Lake merge logic; resolved skew and shuffle bottlenecks across high-cardinality fraud workloads.
- Partnered with downstream consumers to define data contracts, dimensional models, and SCD strategies, reducing rework cycles and clarifying ownership across analytics teams.
- Adopted GitHub Copilot and Claude Code into the team's PySpark and SQL workflow; accelerated pipeline scaffolding, SQL drafting, test generation, and PR review across the platform.
- Translated investigative outputs into engineering work: high-velocity credit-card alerting surfacing 1,200+ accounts with anomalous activity, plus a fraud-pattern pipeline driving a \$900K/yr reduction in fraud losses.
- Delivered a document-authentication data flow that surfaced missing foreign credit data as the top driver of customer stops; results led to a 3rd-party vendor pilot projected to net ~\$500K/yr in profit and ~\$3M LTV per cohort.

***Forecasting Analyst - Cost and Contract Management***

June 2020 – March 2023

- Designed and shipped an automated ETL forecasting framework on Azure (Databricks, SQL, scheduled orchestration) covering AT&T's ~\$2.2B/yr Consumer Tech Experience portfolio; scaled from 3 to 25 leadership-level forecasts and saved ~400+ hours/month of manual work.
- Built scalable financial, HR, and time-reporting datasets for executive leadership (1 SVP, 7 VPs, 25 AVPs) through optimized ETL, dimensional modeling, and partnership in Agile ceremonies translating business requirements into pipelines and data contracts.

## SELECTED PROJECTS

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**Portfolio:** [www.Alexhuggler.com](http://www.Alexhuggler.com)

- **Real-Time Fraud Signals Pipeline** — Streaming pipeline simulating ~5K events/sec from billing, device, and authentication sources. Kafka → PySpark Structured Streaming → Snowflake, with dbt models, exactly-once processing semantics, partitioned storage, and CI/CD via GitHub Actions. Demonstrates production-grade streaming patterns end to end. Stack: Kafka, PySpark, Snowflake, dbt, Docker, GitHub Actions.
- **Multi-Cloud Telecom Lakehouse (Medallion)** — End-to-end ELT from public CDR-style telecom datasets into a Bronze/Silver/Gold lakehouse on AWS S3 + Apache Iceberg. Airflow DAGs orchestrate ingestion and

transformation; Great Expectations enforces contracts; Terraform provisions the full stack. Stack: AWS S3, Iceberg, Airflow, dbt, Great Expectations, Terraform, Docker.

- **AI-Assisted SQL & Pipeline Optimizer** — CLI tool that uses Claude and GitHub Copilot to suggest Spark/Snowflake query rewrites, partitioning strategies, and Delta merge tunings. Benchmarked on a 50-query corpus to quantify runtime and cost savings. Stack: Python, Claude API, Spark, Snowflake, pytest.

## TECHNICAL SKILLS

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**Languages:** Python (PySpark, pandas), SQL, T-SQL, Bash, Scala (working), R, DAX, M

**Cloud & Data Platforms:** Azure Databricks, Azure Synapse, Azure Data Factory, Azure SQL, Delta Lake; familiar with Snowflake, AWS (S3, Glue, Redshift), GCP (BigQuery)

**Orchestration & Transformation:** Apache Airflow, dbt, Databricks Workflows, Azure Data Factory pipelines

**Big Data & Streaming:** Apache Spark / PySpark, Delta Lake, Structured Streaming; familiar with Kafka, Apache Iceberg

**Data Modeling & Warehousing:** Dimensional / Kimball modeling, Medallion (Bronze/Silver/Gold), Slowly-Changing Dimensions, data contracts, semantic layers

**Databases:** PostgreSQL, MongoDB, Azure SQL, T-SQL

**DevOps & Quality:** Git, CI/CD pipelines, dbt tests, data quality checks; familiar with Terraform, Docker

**BI & Visualization:** Power BI, Tableau, Excel / Power Query

**AI-Assisted Development:** GitHub Copilot, Claude Code, ChatGPT — used daily for pipeline scaffolding, SQL generation, PR review, and documentation synthesis

## EDUCATION

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The University of Texas at Dallas — M.S., Business Analytics · Scholar with Recognition

The University of Texas at San Antonio — B.B.A., Economics · Magna cum laude

## CERTIFICATIONS

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- Microsoft Certified: Azure Data Engineer Associate (DP-203)
- Microsoft Certified: Azure Data Scientist Associate (DP-100)