

Cole Thompson

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Skills

Programming	SQL (Postgres, NoSQL, SparkSQL) Python (Pandas, Requests, PySpark, NumPy), Scala, HTML, CSS, git, PowerShell
Cloud Technologies	Azure (Logic Apps, Event Hub, Event Management), Snowflake, Airflow, ActiveBatch Microsoft Power Platform, Spark, Databricks, Flink, Docker, Kafka, Tableau, CICD

Experience

Data Engineer - DPR Construction

February 2022 – Present

- Designed efficient data models and implemented data pipelines in SQL for 500+ million row tables. Optimized data retrieval and processing on large-scale datasets achieving 40x faster query execution on these big data sets.
- Built a data pipeline using POST API to unlock Apple devices. Saved \$200K/year in eCycling device costs.
- Engineered Azure Data Services with Event Hub and Logic Apps to collect and store millions of IoT device data points. Enabled real-time data analysis and monitoring for proactive decision-making.
- Led courses on the Power Stack, empowering IT analyst and dev team with advanced Power BI, Power Automate, and Power Apps knowledge.
- Applied Python to streamline \$10M/year billing data and automation tasks to cloud environment, reducing manual intervention and errors. Empowered rapid iterations and data-driven improvements.

Data Engineer - Clearwater Paper

May 2019 – February 2022

- Programmed in SQL to develop data quality rules to internally audit business functions connected to the businesses' enterprise resource planning system,, for issues with corrupted or missing data and solved problems.
- Led ERP system module structure analysis and data migration to decrease yearly spend by \$300k.
- Implemented distributed compute solutions in SQL for large-scale data processing, designed optimized data models with advanced window functions, and developed efficient stored procedures, resulting in significant improvements in processing time.

Information Systems Assistantship - Gonzaga University

August 2020 – June 2021

- Taught SQL concepts including relationships, tables, and cardinality to 100+ undergraduate level students.
- Created materials and activities to increase students' understandings of database concepts.

Software Engineer Internship - SilverBay Seafoods

May 2018 – August 2018

- Architected a web app for accounts payable invoice system. SQL to handle database management, Python for back-end logic, and CSS/HTML for creating an intuitive and user-friendly front-end.

Certification

Data Engineering Mastery - EcZachly Inc

October 2023

- Completed a 120-hour course covering all key parts of data engineering through lectures and projects.
- Gained proficiency in data modeling techniques, including Dimensional Modeling, Facts, Slowly Changing Dimensions (SCD), One Big Table, Large Language Models (LLM)
- Acquired expertise in building robust data infrastructure and pipelines, emphasizing data quality, utilizing Apache Spark (SparkSQL and PySpark) for batch processing, and Flink and Kafka for stream processing.

Education

Gonzaga University (M.B.A)

2020 - 2021

Data Analysis

Relevant Courses: Applied Data Science, Information Systems Theory

Gonzaga University (B.B.A)

2016 - 2020

Information Systems & Accounting (*dual major*)

Achievement: 4x Dean's List