

Cecil Ash

Florida, USA | cecil.ash.4@gmail.com | 352-461-8352 | [Personal Website](#)

Skills

- 4 years of experience in data using Python/dbt/Snowflake/AWS/GCP/Airflow/Kubernetes/Docker
- Architect of 3 data-driven products, each taken to market in 6 months or less.
- Education: M.A.Sc and B.Sc Industrial Engineering at Dalhousie University, Canada ([link to research](#))

Related Work Experience

Machine Learning Engineer II • Teaworks (Zelus Analytics) • USA 2023-2025

- Led the architecture design and technical development of a Data-Warehouse product. Broke the project down into actionable work plans for junior engineers.
- Built event-driven ML pipeline to deliver predictions within 1 hour of data availability.
- Increased parallel compute pipeline speed 5x by changing the caching and partitioning strategy.
- Served as release manager, testing data science models and data engineering infrastructure.
- Researched and built POC for non-deterministic mapping across multiple data vendors.
- Provided mentorship and technical guidance for 2 junior engineers.
- Developed cloud-based data pipelines and deployed ML models using Docker, Kubernetes, Airflow.

Data Engineer • Karbon Accounting Software • Canada 2022-2023

- Lead developer of award-winning business intelligence product, generating \$400,000 of ARR within 12 months of product launch.
- Implemented advanced SQL and dbt concepts like pre/post-hooks, macros, and window functions.
- Maintained production-level infrastructure using Terraform.
- Coded API ingestion data pipeline from 3rd party accounting software.
- Optimized SQL queries to reduce dbt run times by 75%.
- Wrote a custom log handling class in Python for sending log messages to Elasticsearch via API.

Analytics Engineering Consultant • Modern Data Science Inc. • Canada 2021

- Researched existing solutions for ephemeral data sharing, then created lean business canvases.
- Defined business needs, then created strategic data roadmaps for B2C SaaS companies.
- Built data app in Hex (Python and SQL) for customer success team to visualize customer activity.
- Analyzed customer event data for predictive indicators of account expansion and churn, resulting in actionable insights for the customer success team to improve net dollar retention.

Process Improvement Consultant • Isaac Operations Ltd. • Toronto, Canada 2021

- Increased line throughput by 30% by reducing non-value-added work and machine failures.

Business Analyst • Davis Pier Consulting • Halifax, Canada 2019

Researcher • Continental Automotive • Chatham, Canada 2018

- Researched vehicle thermal control systems and designed a physical model to validate products.

Manufacturing Engineer • General Motors • St. Catharines, Canada 2018

Related Projects

Python & Streamlit PPE Data-App • Nova Scotia Open Data Contest • 2nd prize 2021

- Transformed PPE supplier data into relevant and actionable information for small businesses.
- Developed a user-friendly web-application with Python libraries.
- Demonstrated functionality and business case to panel of government and technology judges.

Predicting Customer Churn • Outshine Online Marketing

2020

- Coded neural networks and survival analysis models in Python to predict customer churn rate.
- Collaborated with team members ~8 hours per week in addition to weekly meetings with our client.
- Managed project using Agile methodology and Scrum meetings.

JavaScript & D3 Baseball Data Visualization

2020

- Developed concept for D3 visualization of baseball pitch data.
- Coded interactive visualization features using D3 and JavaScript.
- Mapped and improved the user experience.