

# CODY HOU

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## Summary

Data professional with a Master's in Data Science and cross-functional experience in analytics engineering and machine learning. Skilled in building modern data stacks (dbt, Airbyte, Dagster, BigQuery) and deploying production-grade ML pipelines with Kubernetes and Docker.

## Skills

**Languages:** Python, SQL, R, Bash  
**Cloud Platforms:** AWS (S3, Redshift, Glue, EKS), GCP (BigQuery, GKE, Cloud Storage)  
**Warehouses & Lakes:** Snowflake, BigQuery, Redshift, Delta Lake  
**ETL & Data Modeling:** Airbyte, dbt, Apache Spark, Kafka  
**Orchestration:** Dagster, Airflow  
**DevOps & MLOps:** Docker, Kubernetes, MLflow, GitLab CI/CD, Terraform  
**Machine Learning:** Databricks ML, MLflow, scikit-learn, PyTorch  
**Data Visualization:** Power BI, Tableau, Plotly, Seaborn

## Work Experience

**Data Analyst** Mar 2025 – Present  
*Upwork* *Remote*

- Designed and delivered custom reports and dashboards using Power BI to assist clients in decision-making.
- Assisted clients in data cleaning, ETL processes, and data reporting automation to streamline workflows.
- Helped clients set up KPIs and created basic predictive models to forecast trends and improve business strategies.

**Data Consultant** Dec 2024 – Feb 2025  
*Centauri Alpha* *Remote*

- Designed and implemented custom analytics solutions using **Power BI** and **Python** to help small businesses optimize decision-making.
- Developed predictive models and data visualization dashboards to enhance **data-driven strategies**.
- Automated **ETL workflows** to improve data processing speed and accuracy.

**Research Assistant - Data Analyst** Jun 2024 – Oct 2024  
*The University of Queensland* *Brisbane*

- Collected, cleaned, and analyzed **infectious disease** data from diverse sources to provide actionable insights.
- Identified trends, patterns, and correlations in large, multi-dimensional datasets, driving **data-driven** decision-making.
- Created impactful **reports** and **presentations**, clearly communicating key findings and recommendations to **stakeholders**.

## Projects

Production-Ready Data Engineering Pipeline with Generative AI Integration— Team Leader [Link](#)

Energy Storage Value Optimization in PV Systems — Team Leader [Link](#)

Conversion Rate Optimization (CRO) via A/B Testing— Team Leader [Link](#)

## Certification

dbt Fundamentals [Credential](#)

Databricks Fundamentals [Credential](#)

Atlassian Agile Project Management Professional Certificate [Credential](#)

## Education

**Master of Data Science**  
*The University of Queensland* 2022 - 2024

Publication: Travel network analysis for infectious disease transmission in Pacific Island countries [Link](#)