

SUMMARY

Passionate data analytics and analytics engineering professional with previous experience as a recruiter. Experienced in start-ups and tech giants, adaptable and resilient. Determined to grow exponentially.

EDUCATION

Master of Information Technology | Distinction
University of Wollongong

Feb 2022 – Dec 2023
Wollongong, NSW

EXPERIENCE

Humii Inc.
Data Engineer

Mar 2023 – Present
Wollongong, NSW

- About Humii: Customer experience tracking for high-performing retailers via a single AI-powered dashboard.
- Leveraging end-to-end **dbt** capabilities to develop custom macros, implement models with CTEs and window functions, debug and test to streamline data transformation workflows and generate robust business scoring models.
- Maintaining **PostgreSQL** star schema data models to optimize query performance and support complex analytical requirements, ensuring efficient data organization and accessibility for business reporting needs.
- Expanding enterprise data pipeline capabilities by extending the team's **dagster** architecture, developing Python-based tasks to complement dbt models and implement advanced automation workflows that bridge the computational limitations of SQL-only transformations.
- Implementing feature additions for a sentiment analysis pipeline, leveraging a **large language model (LLM)** to process and analyze user inputs, enabling enhanced data-driven decision-making, using OpenAI APIs.
- Building an internal application with **Flask, jQuery, and the DataTables**, integrating a backend API, database server, and authentication to deliver robust data visualization and an optimized user experience.
- Creating a Customer Relationship Management (CRM) entirely from scratch using **retool**, demonstrating technical expertise by optimizing data flows, implementing business logic and multi-step process flows, then integrating APIs to rapidly deliver a robust, user-friendly solution within technical constraints.
- Making valuable contributions to a dynamic crawler project using **Scrapy framework**.

University of Wollongong
Academic Tutor

Feb 2024 – Present
Wollongong, NSW

- Conducted lab sessions on Database Management & Development (CSIT115) and Database Systems (CSCI235)

PROJECTS

Twitter Account Classification | Github

Technologies: Python (pandas, scikit-learn, NumPy)

- Executed comprehensive data pre-processing on Twitter datasets, including stratified splitting to preserve account type distribution, and developed the **cleanTweet** function to improve text quality for model input.
- Employed a bag of words model with logistic regression for account classification, fine-tuned parameters for optimal performance, and analyzed keywords to distinguish between human and non-human accounts.

Precision-Tolerant Database System (Capstone project) | Github

Technology: SQL

- This is my capstone project to formulate a precision-tolerant theoretical database framework, incorporating a case study on a ride-hailing service to address 'imprecise' data within Numerical Conditional Constraints (NCC), thereby enhancing the reliability of the database and the precision of data analysis.

Ecommerce Data Insights | Github

Technologies: dbt, Apache Airflow, Snowflake, SQL

- An e-commerce analytics project built with dbt, Airflow, and Snowflake aims to establish a robust data pipeline using the sample **tpch** dataset, focusing on products, customers, and purchase data.

SKILLS

Programming Languages

Python, SQL, JavaScript, HTML/CSS

Frameworks and Libraries

PostgreSQL, Flask, dbt, Dagster, Scrapy, Hive, Spark, Apache Airflow, Snowflake

Softwares & Development Tools

Tableau, GitHub, JIRA, VS Code, PyCharm, Jupyter Notebook