

# FRANCIS NEAL ALTARES

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## PROFILE SUMMARY

Data Engineer with extensive experience building high-performance data solutions across telecom and IT environments. Specialist in architecting scalable pipelines that transform complex, multi-source data into actionable business insights. Expert at bridging legacy database systems with modern cloud stacks, with a proven track record of automating workflows and optimizing large-scale data ecosystems for reliability and speed.

## SKILLS

### Core Data Engineering

Azure Data Factory, Snowflake, dbt, Airflow, PySpark, Python (Pandas/NumPy), SQL

### Cloud & Storage:

Azure Data Lake, AWS S3, PostgreSQL, MongoDB

### Pipeline Automation

CI/CD (GitHub Actions), Docker, Bash/Shell Scripting, Flask REST API

### Data Modelling & SQL

Star Schema, Snowflake Schema, Stored Procedures, Functions, Triggers, Views, CTEs, and Window Functions

### Business Intelligence & Reporting

SSRS, IBM Cognos, and Power BI

## STRATEGIC PROJECTS

### End-to-End Cloud Data Pipeline (Azure, Snowflake, dbt)

- **Engineered a custom ingestion framework** using **Python (Selenium)** and **Flask REST APIs**, designed for seamless adaptation to **AWS (S3)** or **Azure (ADLS)** landing zones.
- **Architected a multi-environment workflow**, utilizing **PostgreSQL** for local development and **Snowflake** as the production data warehouse to optimize compute costs.
- **Developed modular ELT models in dbt**, implementing automated data testing and documentation to ensure high-quality datasets for downstream analytics.
- **Integrated a Lakehouse pattern** by landing raw data in ADLS Gen2 and automating the schema migration and loading process.
- **Deployed containerized pipeline components** using Docker and GitHub Actions (CI/CD) for serverless execution on Azure Container Instances.

### Sentiment Analysis of YouTube Comments (Academic Project)

- **Scalable Data Ingestion:** Developed a system to pull metadata and **1 million comments** from 1,000 YouTube videos, managing API limits and large-scale data flow.
- **Distributed Processing:** Used **PySpark** to build a batch workflow that cleaned and organized the data, making it 10x faster than traditional processing methods.
- **Text Refinement:** Applied **NLP techniques** (like cleaning and tokenization) to turn messy social media comments into high-quality data ready for analysis.
- **Structured Architecture:** Organized the data into layers (**Raw, Processed, and Analytical**) to ensure the system was easy to debug and maintain.

## WORK HISTORY

### IT Support and Automation

Variety Village Children's Charity of Ontario | Scarborough, ON | JULY 2024 – January 2026

- **Engineered** complex SQL queries, stored procedures, and views to retrieve, analyze and transform data for reporting and analytics
- **Optimized** CRM-to-SharePoint integrations, ensuring data consistency for stakeholder reporting.
- **Automated** SharePoint and Microsoft 365 processes, including account provisioning, list updates, and workflow management, reducing manual effort and errors by **40%**.

### **Operating System and Database Administration Lead (L3)**

Globe Telecom Inc. | Manila, Philippines | MARCH 2022 – April 2023

- **Reduced database incidents by 60%** through proactive monitoring, log analysis, and performance tuning of production systems.
- **Standardized database architecture** and design patterns, streamlining operations and improving system scalability
- **Resolved critical L3 outages** for high-availability systems (99.9% uptime) via deep-dive root cause analysis.
- **Optimized change management** in ServiceNow, accelerating issue resolution and improving cross-team data reliability.

### **Application, Backend and Data Developer**

Globe Telecom Inc. | Manila, Philippines | MARCH 2012 – March 2022

- **Engineered end-to-end ETL pipelines** using **Python**, **Bash**, and **SQL** to ingest data from APIs, FTPS, and JSON into central storage, streamlining multi-source data integration.
- **Architected relational schemas and data models**, optimizing indexing and partitioning strategies to support scalable, high-performance analytics.
- **Developed advanced SQL objects** (Stored Procedures, CTEs, Triggers) to automate complex data cleaning and transformation logic.
- **Improved data reliability by 25%** by implementing automated validation frameworks and quality checks in Python.
- **Boosted query performance** on large-scale telecom datasets through rigorous execution plan analysis and query tuning.
- **Built self-service data tools** using **C# ASP.NET**, enabling business units to access critical reports without manual IT intervention.
- **Ensured system stability** for mission-critical data systems through 24/7 production support and rapid incident resolution.

### **CERTIFICATIONS**

- Microsoft Data Fundamentals DP-900, Microsoft, July 2024
- Google Data Analytics Professional Certificate, Coursera, February 2024
- IBM DevOps and Software Engineering Certificate, Coursera, December 2023

### **EDUCATION**

**LAMBTON COLLEGE**, Toronto, Canada

Postgraduate Certificate in Artificial Intelligence and Machine Learning

**MAPUA INSTITUTE OF TECHNOLOGY**, Makati, Philippines

Bachelor of Science in Information Management

**MAPUA INSTITUTE OF TECHNOLOGY CENTER**, Makati, Philippines

Associate in Management Systems Technology