

FRANCIS NEAL ALTARES

Toronto, ON | +1 (437) 559-4509 | altares.fneal@gmail.com

<https://www.linkedin.com/in/francisnealaltares> | <https://github.com/FNeal10>

PROFILE SUMMARY

Data Engineer and Backend Developer with proven experience designing and building high-performance data pipelines and backend systems in telecom and IT environments. Skilled in transforming complex, multi-source data into insights using Python, SQL, dbt. Experienced in backend development, workflow automation, and integrating legacy systems with scalable, cloud-native architectures to improve reliability, speed, and business impact.

SKILLS

Core Data Engineering

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

Cloud & Storage:

Azure Data Lake, AWS S3, PostgreSQL, MongoDB

Pipeline Automation

CI/CD (GitHub Actions), Docker, Bash/Shell Scripting, 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.

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 100% 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 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