DARREN MALIBIRAN

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EDUCATION

Bachelor of Science in Computer Science   2020 - 2024
Batangas State University - Alangilan   GWA: 1.49

EXPERIENCE

Intern Developer   June - July 2023
Department of Information and Communications Technology   Batangas City

- Developed a Flask web application for centralizing projects data access, management, and analysis
- Worked with Docker for containerization, ensuring consistent development and deployment environments for PostgreSQL and Flask
- Integrated Grafana to create real-time performance review report

PROJECTS

Weather ELT Pipeline   ⌂ /Weather-Data-Pipeline

- Extract-Load-Transform (ELT) pipeline for NOAA Integrated Surface Database (ISD), utilizing Apache Airflow for weather data orchestration and Docker for containerization
- Created an interactive dashboard with Metabase for 1999-present weather data from 10,000+ stations worldwide

Reddit PH Pulse   ⌂ /Reddt-PH-Frontpage

- Gather and analyze 1000 popular posts daily from the Reddit's front page for the Philippine region using web scraping techniques, including proxy rotation to avoid triggering rate limit violations
- Optimized data retrieval by leveraging Reddit's API and implementing multi-threaded requests execution

Open Quake   ⌂ /Open-Quake

- Designed and implemented a polling system for more than 50,000 PHIVOLCS earthquake data (2018-present)
- Configured using Cloud Function that processes and ingests data to the Cloud Storage and BigQuery
- Utilized Looker Studio to create an interactive dashboard updated every minute

SGX Stock

- Command line application developed using Python that downloads derivatives data from Singapore Exchange
- Applied a recovery procedure to retry failed requests with configurable parameters

TECHNICAL SKILLS

Languages	Python, SQL, R
Data Visualization	PowerBI, Looker Studio, Grafana, ggplot2
Database	PostgreSQL, MS SQL-Server, MongoDB
Google Cloud Platform	Compute Engine, Cloud Function, Storage, Scheduler, BigQuery, Looker Studio
Developer Tools	Git, Docker, Apache Airflow, Jupyter Notebook

RELEVANT COURSES

Cloud	Cloud Foundations (AWS)	Create and Manage Cloud Resources (GCP)
Cybersecurity	Introduction to Cybersecurity (CISCO)	SCI Fundamentals (Microsoft)
Data & Analytics	Design Database with PostgreSQL	Introduction to Big Data with PySpark
	Business Intelligence Dashboards	