DARREN MALIBIRAN

09954493933 ⋄ malibiran.ds@gmail.com ⋄ Lipa City, Batangas

in darren-malibiran ⋄ 🌐 darren-sm.github.io ⋄ ⌨ darren-sm

EDUCATION

Bachelor of Science in Computer Science (e) July/August 2024
Batangas State University - Alangilan

EXPERIENCE

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

- 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
- Collects 1999-present weather data from over 10,000 stations worldwide
- Created an interactive dashboard with Metabase

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-threading for parallel execution of requests.

Open Quake ⌨ /Open-Quake

- Designed and implemented a polling system for more than 50,000 PHIVOLCS earthquake data (2018-present) in the Philippines
- 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 (SGX)
- Applied a recovery procedure to retry failed requests with configurable parameters.

TECHNICAL SKILLS

Languages	Python, SQL, R
Data Visualization	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