

# DARREN MALIBIRAN

09954493933 ◇ darrenmalibiran@outlook.com ◇ Lipa City, Batangas

**in** darren-malibiran ◇  darren-sm.github.io ◇  darren-sm

## EDUCATION

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### Bachelor of Science in Computer Science

Expected June 2024

Batangas State University - Alangilan

## EXPERIENCE

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### Backend Developer Intern

June-July 2023

Department of Information and Communications Technology

- 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

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### 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

 [/Reddit-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

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### Languages

Python, SQL, R

### Data Visualization

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