

# DARREN MALIBIRAN

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## OBJECTIVE

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An internship that will allow me to utilize my problem-solving skills and attention to detail to further develop my abilities in the field of computer science.

## EDUCATION

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**Bachelor of Science in Computer Science**  
Batangas State University - Alangilan

Expected May 2024

## 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, totaling over 1.4 billion records or 12 GB of data.
- Designed an interactive dashboard with Metabase providing real-time visualizations and analytics

### Reddit PH Front-page Web Scraping and Data Analysis

 [/Reddt-PH-Frontpage](#)

- Gather and analyze 1000 popular posts from the Reddit's front page for Philippine users 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.
- Developed an insightful data visualization using Jupyter Notebook and the matplotlib library.

### Crypto Data Pipeline

 [/Crypto-Data-Pipeline](#)

- Data pipeline for top 100 cryptocurrency coins data using Coingecko API.
- Configured a Google Cloud Functions instance that processes and ingests data into BigQuery, triggered every 5 minutes via an HTTP Request using Google Cloud Scheduler

### I-Track: Student Progress Tracker

 [/I-Track-Web](#)

- Student progress tracker web application for teachers to monitor student performance
- Leveraging Apache as the server and PostgreSQL as the database, both containerized using Docker Compose

## TECHNICAL SKILLS

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

## RELEVANT COURSES

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Python	Udemy's Automate the Boring Stuff with Python
Cybersecurity	Microsoft's SC-900, Fortinet's NSE 1 & NSE 2, Qualys's Vulnerability Management
Data Engineering	Datataalks' Data Engineering Zoomcamp, Udemy's Apache Airflow: The Hands-On Guide