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Websites:

• LinkedIn: https://www.linkedin.com/in/danilo-alvaro-16b17534b/

• Github: https://github.com/Dan013577947

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Skills & Interests

Technical: Python (Pandas, Data Structures and Algorithms), SQL, Docker, Apache Airflow, Data pipeline (ETL, ELT), BI (Superset), Excel, C#, C++, C, Kotlin, Java, Godot, PHP, JS, HTML, CSS,

Language: Filipino (Native), English (Intermediate)

Interests: Personal Projects, Data Manipulation, Data Pipeline Development, Data Analytics, Programming

Projects

Philippines Earthquake Records ETL Pipeline Project (2025)

- Overview: The project automates the collection and processing of earthquake data from PHIVOLCS. It fetches raw earthquake data using SOAP for HTML parsing, removed duplicates and null using pandas, processes it with Python scripts, runs transformations with dbt, and loads it into PostgreSQL for analytics. The entire workflow is scheduled and managed using Apache Airflow, containerized with Docker, and visualized using Superset.
- Tech Stack: Python, SQL (Postgresql), HTML Parsing (Soap), Apache Airflow (DAGs, scheduling), Docker, dbt (data modeling & transformations)
- ➤ Key Features: Scheduled ETL pipeline using Airflow (PythonOperator & DockerOperator), Data transformation and modeling with dbt, automated aggregation of earthquake metrics (most active location, daily earthquakes count, daily average magnitude), containerized using Docker and Docker Compose, displayed the final output using Superset

• Weather Data ELT Pipeline Project (2025)

- Overview: The project automates the collection and processing of weather data. It fetches raw weather data from Weatherstack API, processes it using Python scripts, and runs transformations with dbt before loading it into PostgreSQL for analytics. The pipeline is scheduled and managed with Apache Airflow and containerized using Docker and displayed the final output through Superset.
- ➤ Tech Stack: Python, SQL (Postgresql), Apache Airflow (DAGs, scheduling), Docker, dbt (data modeling & transformations)
- Key Features: Scheduled ELT pipeline using Airflow (PythonOperator & DockerOperator), Data transformation and modeling with dbt, automated hourly, daily, monthly and yearly aggregation of weather metrics, containerized using Docker and Docker Compose, displayed the final output using Superset

• Simple Pacman Game (Specially Made for New Year) (GDevelop) (2021)

- My greatest achievement in game development, I designed the game from scratch using GDevelop, implemented player movements, enemy movements, score tracking, design, sounds, and camera movement. My first published game in itch.
- Move your Pacman and eat all the balls on its path, eating the balls will increase your score, but make sure to avoid the moving enemies, one wrong hit will be game over.
- Win the Game to celebrate your Win with Fireworks

• Memory Game in Console (C) (2020)

- Memory Game was made in 2020 with C Language; this is the first complex game I made without the help of online resources to challenge myself. I developed the game to enhance my programming skills; the game has lots of data manipulation and error handling.
- > Start the Game by memorizing 16 random numbers on the screen. (Each time you run the program, 16 new numbers will be displayed (not iterating))

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- ➤ 15 seconds to memorize everything (adjustable by the coder) then all the numbers will be hidden as asterisks after 15 seconds.
- First choice needs to Input rows and columns to choose a hidden number. Second choice needs to input rows and columns to know if the hidden number matched with your first choice.
- Match everything to win the game!!
- Chess in CMD (Python) (Work in Progress)
 - I made Chess CMD in Python to refresh my knowledge with Python's data structures and algorithms which made possible with the usage of dictionaries and lists. The project isn't finished yet, but I already implemented player's Rook and Pawn movements with lots of fixed errors.
- **Snakes and Ladders in CMD** (Python) (2022) Final group project, Idle Snake and Ladders in CMD, dice-based game
 - Snakes and Ladders is a final group project in one of my subjects in college. There are mini and large Pythons on the way which give demotions and Ladders which give promotions. A dice-based game, click 'y' each time to roll a dice and move forward. The game includes data manipulation and algorithms. I earned money with this game after selling it to my classmates, I also taught them Python language and explained how my program works.
- Simple Pong Game (Godot) (2024)
 - Mobile Pong Game made with Godot, catch the ball each time it bounces the wall to score.
- Jet Shooter (Godot) (2024)
 - ➤ Jet shooter game in Desktop, move your jet and destroy the objects using your laser to earn points. Avoid getting hit, 3 hits = Game Over.
- InventoProfit (Python) (2023) Final group project, Inventory with QR Scanner using Laptop/Desktop
 - InventoProfit is a final group project, and I am the main contributor. I made the program using Python and Tkinter Library for GUI, it has features such as QR code auto generate for each item added, QR code scan using laptop/desktop camera, login and creation account system, forgot password, sales history, daily sales, weekly sales, monthly sales, expenses handling, inventory, and so on. I used txt as database and used own logic to manipulate the database in txt. The project needed patience and data handling skills.
- Remote Control Light Bulbs with Relays (LCD and Automatic Operations) (Arduino C++) (2023) Final group project, Light Bulbs can be set automatically/manually depends on what the user wants.
 - Final project made using Arduino. Light Bulbs can be set automatically/manually and how many bulbs to use depends on what the user wants. It also has an option to set the time and date so the user can select when he wants to use the bulb/s. The project needed date and time handling, data structures and algorithms, and accurate timing of bulbs and LCD.
- Multiple Small Programs (Java) (2022)
 - Multiple Small Programs is a final project in one of my subjects in college. The program includes some basic algorithms and basic data manipulation using Java Language
- Identifying First Letters (Python) (2021)
 - Made the game to be played by nursery students/kindergarten. Look at the image on the screen and answer the teacher to see which letter in the options is the correct answer.

Education

Technological University of the Philippines

Bachelor's Degree, Computer Engr Technology

Manila

October 2021 - August 2025

Experience

Freelance Programmer Quezon City

2022-2024

- Designed and developed programs for clients
- Collaborated with clients to understand project requirements