

Danilo E. Alvaro Jr.

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Portfolio: <https://dan013577947.github.io/danilo-website-react/> | **LinkedIn:** <https://www.linkedin.com/in/danilo-alvaro-16b17534b/> | **Github:** <https://github.com/Dan013577947> | **itch:** <https://danilo031717.itch.io/>

Skills & Interests

Web Development: ReactJS, JavaScript (JS), HTML5, CSS3, React Router

Tools/Other: Git, Github, Linux

Language: Filipino (Native), English (Intermediate)

Interests: UI/UX Design, Competitive Programming/Puzzles.

Projects

- **Portfolio Website (2025)**

- Tech Stack: ReactJS, JavaScript, HTML5, CSS3, React Router, Git, GitHub Pages.
- Designed and developed a responsive personal portfolio from scratch using **ReactJS** to showcase skills in modern frontend frameworks.
- Implemented key features including component-based architecture, **dynamic routing** and **optimized mobile layout** for seamless viewing across all devices.
- Successfully demonstrated proficiency in building a well-organized component-based structure, utilizing **CSS styling**, and managing deployment via **GitHub Pages**.

- **InventoProfit (2023) – Final group project, Inventory with QR Scanner using Laptop/Desktop**

- Tech Stack: Python (matplotlib, open-cv, pyqrcode, pypng, pillow, tkinter), Database(.txt)
- Engineered a Python desktop application with **Tkinter** for GUI, featuring secure user authentication and inventory tracking. Implemented **QR code generation/scanning** using open-cv and pyqrcode. Developed custom data handling logic to manage detailed sales history, including daily/weekly/monthly reports from a **.txt database**.

- **Philippines Earthquake Records ETL Pipeline Project (2025)**

- Tech Stack: Python, SQL (Postgresql), HTML Parsing (Soap), Apache Airflow (DAGs, scheduling), Docker, dbt (data modeling & transformations)
- Engineered and deployed a scheduled **ETL** pipeline using **Apache Airflow** (DAGs & DockerOperator) to automatically ingest and process PHIVOLCS earthquake data.
- Performed data transformations (deduplication, null handling) using **Python (pandas)** and **dbt** before loading data into **PostgreSQL**.
- Automated aggregation of key earthquake metrics and visualized final analytics using **Superset**.

- **Weather Data ELT Pipeline Project (2025)**

- Tech Stack: Python, SQL (Postgresql), Apache Airflow (DAGs, scheduling), Docker, dbt (data modeling & transformations)
- Engineered and deployed an automated **ELT** pipeline to ingest raw weather data from the Weatherstack API and perform end-to-end data processing.
- Managed the entire workflow using **Apache Airflow** (DAGs with Python/Docker Operators) and containerized the system with **Docker**.
- Executed data transformation and modeling with **dbt**, performing automated hourly, daily, monthly, and yearly aggregation of weather metrics.
- Displayed the final analytics and aggregated data through a dedicated dashboard in **Superset**, providing a clear end-to-end solution for data consumption.

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- **Remote Control Light Bulbs with Relays (LCD and Automatic Operations) (2023)** – *Final group project, Light Bulbs can be set automatically/manually depends on what the user wants.*
 - Tech Stack: Arduino IDE (ESP32 Microcontroller, I2C LCD, Real Time Clock, IR handler), C++, Hardware (Wood Box, Relays, LCD, Wires, Bulbs, Buttons, IR Sensor and Remote)
 - 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.

Experience

Independent Programmer / Freelancer (Simple Projects) | Quezon City 2022 – 2024

- **Developed and delivered custom programming projects** for clients and academic requirements, showcasing proficiency in rapid development and fulfillment of core requirements.
- **Managed the complete project lifecycle** for each request, including understanding the client's needs and delivering the final, tested solution on time.
- **Strengthening problem-solving skills** by troubleshooting and debugging various independent projects in Python.

Education

Technological University of the Philippines | Manila October 2021 – August 2025

Bachelor's Degree, Computer Engr Technology