

Ralph Rowel A. Dela Rosa

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Website Portfolio: <https://ralphrowel.github.io/>

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EDUCATION

Jesus Reigns Christian College

Nakpil St., Malate, Manila

Bachelor of Science in Information Technology

Expected Graduation: June 2026

- Capstone: Development of an AI-Enhanced Bubble Curtain System for Automated River Waste Collection Monitoring
- Published in IJRSI, Publication date: June 2026

INTERNSHIP EXPERIENCE

Hiraya Technology Solutions

Commonwealth Ave, Quezon City

Backend Developer Intern

Sept 1 – Dec 2025

- Designed and maintained secure RESTful APIs, improving system reliability and performance.
- Optimized database queries, reducing data processing time and enhancing efficiency.
- Implemented backend solutions that supported scalable and maintainable system architecture.

Data Analyst Intern

Sept 1 – Dec 2025

- Conducted data analysis using Python, SQL, and Jupyter Notebooks to support business decisions.
- Processed and visualized datasets, providing actionable insights to improve workflows.
- Ensured data integrity and accuracy while managing large datasets for reporting purposes

Deutsche Business Solutions

Ayala Avenue, Makati City

Service Desk Team & Field Support Team

Jan 15 - Mar 6 2026

- Observe the process of the Service Desk team's facilitation of remote access to provide direct technical support to clients.
- Learn the basics of ServiceNow and other tools used by the Service Desk team in providing comprehensive assistance to clients.
- Exploring the POS (NAMOS) and how Transactions works

PROJECTS CREATED

QR Code Generator - <https://github.com/ralphrowel/python-qr-generator>

Technologies: Python, Tkinter

- Developed a desktop application that generates QR codes through a graphical user interface.
- Implemented user-friendly input handling and QR image generation features.
- Applied object-oriented programming principles to structure the application.

REST API Project - <https://github.com/ralphrowel/Internship-Project-LibraryAPI>

Technologies: Python, Django REST Framework, PostgreSQL, JWT Authentication

- Implemented JW T (JSON Web Token) authentication for secure user login and protected API access.
- Integrated PostgreSQL for persistent data storage and management.
- Designed and tested CRUD operations with proper validation and serialization.
- Applied authentication and authorization mechanisms to secure sensitive resources.

Device Signal & Battery Time-Series Analysis - <https://github.com/ralphrowel/jupyter-projects>

Technologies: Python, Pandas, NumPy, Matplotlib/Seaborn, Jupyter Notebook

- Analyzed multi-device time-series dataset containing temperature, battery level, and signal strength across 40 devices.
- Developed event detection logic to identify signal loss and recovery patterns in real-time-like logs.
- Performed time-based aggregation (hourly and daily) to uncover connectivity trends and instability periods.
- Built anomaly detection approach focusing on unusual signal drops and irregular device behavior.
- Visualized network performance using heatmaps, time-series plots, and distribution analysis for interpretation.

Animal Biome Educational Website

Technologies: HTML, CSS, JavaScript

- Created an educational website showcasing animals from different biomes.
- Designed responsive web pages with interactive content and organized navigation.
- Focused on improving user engagement and educational accessibility.

Optical Store Management System

Technologies: PHP, MySQL, HTML, CSS, JavaScript

- Developed a web-based system for managing patients, prescriptions, inventory, and sales transactions.
- Designed and implemented a relational database with multiple interconnected tables.
- Created modules for product management, transaction processing, and user account administration.