

# CARLOS ANTHONY C. CABAYA

## Junior Software Developer

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## Skills

<b>Languages:</b>	Java, C++ (Arduino), Python, Html, Css, JavaScript (Basic)
<b>Frameworks:</b>	Flutter, PHP (Laravel)
<b>Databases:</b>	Firebase Realtime
<b>Tools &amp; Platforms:</b>	VS Code, Android Studio, Git / Github, AutoCAD (basic), VB.net
<b>IoT &amp; Embedded Systems:</b>	Arduino Uno, ESP32, Raspberry Pi, Servo/stepper motor control; load-cell & sensor integration

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## Projects

### Clinic Information Management System (VB.NET + MySQL) | Nov 2021 - Dec 2021

- Developed patient check-in, medication logs, and inventory tracking system.
- Implemented automated PDF reporting features.

### Grocery Mart E-commerce Website (WordPress + WooCommerce + PayPal) | Sep 2023 - Dec 2023

- Built and deployed an online store with product listings, cart, and payment integration.
- Configured shipping rules and managed end-to-end order processing.

### Embedded System: Automated Egg Incubator (Android + IoT) | Sep 2023 - Dec 2023

- Designed embedded firmware and Android UI for real-time temperature and humidity monitoring using ESP32; implemented sensor data logging and remote telemetry (C/C++, Firebase).

### Capstone: Conveyor MangoQ: AI-Based Mango Quality Detection & Sorting (IoT Arduino IDE + Android Studio + 3D Design) | August 2024 - Mar 2025

- Developed Android app and embedded firmware to record and display real-time sorting data for a mango-sorting prototype (ESP32/Arduino; C/C++).
- Implemented servo control for the sorter push arm and integrated a load-cell sensor for automated size-based sorting; responsible for sensor calibration and functional testing.
- Created a 3D prototype to visualize system structure and demonstrate the workflow to stakeholders.

### Freelance: Automatic Fish Feeder (Flutter App + ESP32 IoT) | July 2025

- Built a Flutter mobile app and ESP32 firmware for remote scheduling and automated feeding.
- Implemented real-time sync using Firebase Realtime Database and stepper motor control for precise dispensing. Improved feed reliability and remote monitoring.

Github: <https://github.com/Anthony-Cabaya/Feed-Fish-Application.git>

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## Experience

### Web Developer Intern – Neksjob Philippines | January 2024 - March 2024

- Contributed to the development of Neksjob.com, focusing on improving design features and resolving minor bugs.
- Worked with the Laravel framework as the core technology and utilized Git Bash for version control to ensure smooth collaboration.

- Set up and optimized Laragon as a local development environment, streamlining testing and accelerating the development process.
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## Education

**Bachelor of Science in Computer Engineering**

Rizal Technological University Pasig Campus 2025