

## **Carla Mae B. Gidacan**

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### **Education**

#### **National University**

**Bachelor of Science in Information Technology with Specialization in Mobile and Web Application**

Thesis: AquaCultura: A Smart Web and Mobile Platform for Homegrown Hydroponics Farm Management with IoT and Descriptive Data Analysis

Relevant Coursework: Programming, Web and Mobile Development, Database Management, Systems Design, Network and Security

**Sampaloc, Manila**

Expected August 2026

#### **Stella Maris College**

Graduated with Honors | STEM Strand

Cubao, Quezon City

June 2022

### **Leadership & Activities**

#### **IEEE IC4E 2025 — International Conference on E-Education, E-Business, E-Management, and E-Learning**

**Research Author | Published Paper: “WeLink: A Web-based Tutorial Management System for Small Tutorial Center Businesses”**

April 2025 – July 2025

- Conducted research and system development for a web-based tutorial management platform for small tutorial center businesses.
- Co-authored a research paper at the 2025 16th International Conference on E-Education, E-Business, E-Management, and E-Learning (IC4E).

#### **National University**

Manila, Philippines

**Developer | Capstone Project: “AquaCultura: A Smart Web and Mobile Platform for Homegrown Hydroponics Farm Management with IoT and Data Analysis”**

March 2025 – October 2025

- Developed core backend features using Node.js and Express for real-time IoT sensor data handling.
- Integrated MongoDB for storing and analyzing pH and temperature readings from Arduino-based devices.
- Collaborated with a four-member team to design a responsive Flutter interface for mobile and web users.
- Implemented automated nutrient and water control mechanisms improving farm monitoring efficiency.

**Fortinet Certified Fundamentals in Cybersecurity** - Fortinet Training Institute, June 2025

### **Skills & Interests**

**Technical:** JavaScript, Node.js, Express, Flutter, MongoDB, C++, HTML, CSS, Git, Figma, Postman, VS Code

**Language:** English, Filipino

**Laboratory:** IoT prototyping using Arduino Uno R4 WiFi, sensor calibration (pH, temperature), system integration testing

**Interests:** Database design and optimization, server-side programming, casual gaming, tech trends