

# ARCHIE A. ALBARICO

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## Summary

Results-driven Information Technology student seeking an entry-level Developer or On-the-Job Training (OJT) position. Experience in developing full-stack cross-platform applications, particularly with React and PHP, focusing on practical problem-solving and improving user workflows. Eager to contribute technical skills and dedication to a challenging team environment.

## Skills

**Programming Languages:** PHP, Javascript, Java, HTML, CSS, Typescript, MySQL

**Frameworks, Tools & Others:** React JS, Capacitor, QGIS, Git, React Native, Bootstrap, Tailwind CSS, Agile

## Experience

### Capstone Project – Web-Based Information System

Main Developer | Researcher | QA

St. Cecilia's College–Cebu, Inc.

2024 – 2025

- Led development of a **full-stack cross-platform** web application integrating GIS mapping for cemetery plot management using **Agile iterative-driven development**.
- Optimized admin and staff workflow of Finisterre Gardenz, transitioning from **paper-based inventory** → **Excel** → **manual map editing** → **printed maps** to a fully digital system, improving operational efficiency by **70%**.
- Implemented **real-time inventory tracking**, reducing manual errors by **35%**.
- Developed **turn-by-turn navigation with voice guidance**, enhancing user navigation efficiency by 50%.
- **International Presentation:** Successfully presented the research paper and application demo titled "**CemeterEase: A GIS-Based Cross-Platform Plot Inventory & Navigation System**" at the **International Conference on Information Technology Education (ICITE 2025)** in Vietnam as a college representative.

## Projects

- **CemeterEase:** Developed a **GIS-powered, cross-platform system** for cemetery plot inventory, real-time tracking, and navigation. The solution included integrated web and Android applications featuring turn-by-turn navigation with Text-to-Speech (TTS) capabilities, successfully implemented for Finisterre Gardenz.
- **AskMeBot:** Simple RAG (Retrieval-Augmented Generation) chatbot designed for accurate AI-powered assistance. Provides replies based *only* on stored FAQs in a vector database, ensuring clear and direct information with no made-up answers. Automatically logs unmatched queries that do not exist in the vector database and categorizes them based on user intent and frequency for content gap analysis and future database improvements.
- **Queen'z POS and Inventory Management System:** A desktop-based Point of Sale (POS) and inventory management system built for Queen'z, a small fashion retail business in Ward II, Minglanilla. The system helps resolve issues in inventory tracking, inefficiencies, and errors. It features a simple POS interface for sales, real-time inventory management with low-stock alerts, monthly sales reports, and Excel data import for seamless migration of existing records.
- **Shoptify:** A desktop-based shopping application built with Java, Java Swing, and MySQL, applying Object-Oriented Programming (OOP) principles. It features role-based access, where customers can browse products, manage carts, checkout, rate items, and leave feedback, while admins handle inventory, product updates, and customer reviews. This project highlights my skills in GUI design, database integration, and backend development.
- **Self Thoughts:** A digital diary application built with React Native that allows users to write and manage journal entries. It supports cross-device sync with Firebase, offline access, and features like undo/redo and auto-save for a seamless writing experience.

## **Education**

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### **St. Cecilia's College–Cebu, Inc.**

Bachelor of Science in Information Technology (BSIT) – 4th Year

Minglanilla, Cebu

Expected Graduation (2026)

- Capstone Project: "CemeterEase: A GIS-Based Cross-Platform Plot Inventory & Navigation System"

## **Skills**

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- **Agile Development:** Proficient in Agile methodologies, contributing to iterative and collaborative project cycles.
- **Troubleshooting:** Experienced in diagnosing and addressing technical challenges as they arise.
- **Team Collaboration:** Effective team player with excellent written and verbal communication skills.
- **Adaptability & Learning:** Quick learner, comfortable mastering new tools, frameworks, and technologies rapidly.
- **Precision & UX Focus:** Ensures flawless design implementation and a seamless user experience in every project.
- **Time Management & Prioritization:** Delivers tasks on time while balancing multiple projects.
- **Creativity & Innovation:** Applies creative approaches to problem-solving and user-focused design.