MAR KEVIN P. ALCANTARA

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SUMMARY

A Computer Engineering student with practical experience in modern web development, database-driven applications, and embedded system prototyping. I focus on creating functional, user-centered solutions—from interactive web interfaces to integrated hardware–software and IoT systems. I'm eager to apply my problem-solving skills, adaptability, and project experience in a professional setting.

SKILLS

- **Technical Skills:** Java, Python, C#, PHP, C, C++, JavaScript, React.js, Flask, PHP, HTML, CSS, Bootstrap, Tailwind CSS, TensorFlow, YOLO, SQL, MySQL, Git, GitHub, Arduino, Raspberry Pi, Machine Learning, Hardware Troubleshooting (Laptop, PC, Printer) IT & Tools: Basic Networking, Router Config
- **Soft Skills:** Problem Solving, Critical Thinking, Adaptability, Teamwork, Effective Communication, Time Management, Attention to Detail, Troubleshooting, Creativity

PROJECTS

FOVB-AIoT: Four-in-One Vital Sign Sensor with BMI Calculation **August 2025 - Present**

- Served as Lead AIoT Developer, architecting a smart health kiosk for the RTU Pasig Clinic that automates patient risk profiling through real-time vital sign analysis.
- Integrated Arduino IoT sensors to capture physiological data and deployed TensorFlow and YOLO models to process visual data for BMI estimation, displaying instant health risk predictions on a modern React.js dashboard.
- **Technologies:** Python, TensorFlow, YOLO, Arduino, IoT Sensors, React.js, REST API, MySql.

Smart AI Kilo Bot: Intelligent Weighing and Pricing System **November 2025 - December 2025**

- Served as Front-end Developer, creating an intelligent automated weighing solution designed to optimize transaction speed and eliminate calculation errors in fast-paced marketplaces.
- Integrated precision hardware sensors with automated pricing logic to synchronize weight data with cost computation, ensuring instant and accurate results.
- **Technologies:** Python, Arduino, Load Cell Sensors, IoT, Embedded Systems.

Smart Locker System **November 2024 - December 2024**

- Served as Lead IoT Developer, designing a secure storage solution that bridges physical hardware with software control.
- Built a custom Python-based GUI for user-friendly PIN authentication and successfully integrated electronic locking mechanisms for automated access.
- **Technologies:** Raspberry Pi, Python, IoT, GUI Development, Computer Hardware.

CureSecure: Pharmacy POS & Inventory System (C# WinForms) **January 2023 - April 2023**

- Served as Lead Programmer, overseeing the architecture and development of a desktop solution to streamline daily pharmacy operations and sales.
- Engineered critical modules for real-time inventory tracking, automated restock alerts, and secure role-based access control (RBAC) for staff management.
- **Technologies:** C# (WinForms), MySQL, GitHub.

EDUCATION

Bachelor of Science in Computer Engineering (BSCpE) **August 2022 - Present**
Rizal Technological University- Pasig City

Senior High School (SHS) STEM **Aug 2020 - July 2022**
Arellano University Bonifacio Campus- Pasig City