ANDRE V. PESQUERRA

andrevpesquerra@gmail.com | +63 968 241 4955 | Olongapo City, Zambales, Philippines |
https://www.linkedin.com/in/andre-pesquerra/

PROFESSIONAL SUMMARY

Results-driven Full-Stack Web Developer and IoT Engineer with over 2 years of experience in building scalable web applications and innovative IoT solutions. Proficient in PHP, MySQL, and JavaScript with a strong foundation in UI/UX design, eager to contribute to forward-thinking organizations.

WORK EXPERIENCE

SBMA Management Information Systems Office (MISO) **July 2025 - October 2025**

IT Intern - Network Infrastracture *Subic Bay Freeport Zone, Phillipines*

- Planned and implemented network infrastructure projects that enhanced operational efficiency and supported enterprise functions.
- Configured VLAN segments and enterprise-grade network equipment, significantly improving network segmentation and security.
- Assisted in digital solutions initiatives, including system monitoring and end-user support, contributing to overall operational excellence.

PROJECTS

Gavina Noble Dental Clinic Management System **January 2025 – February 2026**

Leader, Full-stack Developer, and Database Design *https://gavinadental.online*

- Engineered a comprehensive full-stack clinic management platform enhancing operational efficiency for patient registration and scheduling.
- Implemented robust security features, including role-based access control and CSRF tokens, ensuring data integrity and safeguarding against attacks.
- Designed a scalable MySQL schema across 19 tables, mitigating SQL injection threats through PDO-based access methods.
- Produced an Android application package for the patient portal, achieving a top score of 97/100 in project implementation.

DevBoard - Kanban Project Management System **April 2026**

Leader, Full-stack Developer, and Database Design *https://devboard.infinityfreeapp.com*

- Developed an intuitive Kanban task management application featuring drag-and-drop interfaces, streamlining project management workflows.
- Constructed an effective relational database schema for enhanced task tracking and user assignments, deploying the system successfully.

Driver Drowsiness Detection System **March 2026**

Lead Engineer, IoT Systems Design, and Hardware Integration

- Designed a cutting-edge IoT safety system utilizing Arduino Nano and DFRobot HRM for real-time heart rate monitoring and alerting.
- Demonstrated functionality using Bluetooth on a scale model vehicle, effectively showcasing technology for driver safety.

Automated Bottle Collection & Charging Station (Bote Swap sa Battery) **March 2026**

Lead Engineer, IoT Systems Design, and Hardware Integration

- Constructed an innovative solar-powered reverse vending machine that autonomously collects plastic bottles, promoting sustainability on campus.
- Implemented voltage regulation for consistent charging output, enhancing the machine's reliability and effectiveness.

EDUCATION

Mondriaan Aura College **May 2026**

Bachelor of Science in Computer Science *Subic Bay Freeport Zone, Phillipines*

CERTIFICATIONS, SKILLS, & AWARDS

- **Skills:** HTML; CSS; JavaScript; PHP; MySQL; REST API; AJAX; Figma; UI?UX Design; Database Management; Network Configuration; IoT Development; Team Leadership; Problem Solving
- **Certifications:** TESDA NC III Visual Graphic Design
- **Awards:** Best in Project Implementation Award — Gavina Noble Dental Clinic Management System (97/100); CIT Student of the Year; Special Citation in Visual Graphic Design