JUDITO N. PEPITO JR

COMPUTER ENGINEERING STUDENT | ASPIRING SOFTWARE ENGINEER

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https://judsportfolio.netlify.app/

PROFILE SUMMARY

Computer Engineering student with hands-on experience in web development and IoT systems, including projects using microcontrollers, Raspberry Pi, and real-time data monitoring. Currently learning Artificial Intelligence and Machine Learning and eager to apply these concepts in real-world applications. Seeking an On-the-Job Training (OJT) opportunity to further develop technical and programming skills in a professional environment.

PROJECTS

SELECTED DEVELOPMENT PROJECTS

- **Capstone Project: Smart Energy Monitoring System**

  Raspberry Pi, ESP32, Python, React Native

  - Designed and developed an IoT-based energy monitoring system for real-time power consumption tracking.
  - Used ESP32 for sensor data acquisition and real-time measurements, with data processing and management handled by a Raspberry Pi.
  - Built a mobile/web interface to visualize energy usage and system status in real time.
  - Implemented anomaly detection concepts and prepared the system for future AI/Machine Learning (NILM) integration.

- **Gas Sensor Alarm System**

  ESP32 , Blynk, C++

  - Built an IoT-enabled gas leakage detection and alert system for safety applications.
  - Implemented real-time monitoring and mobile notifications using Blynk platform.
  - Enhanced system responsiveness to ensure immediate alerts during hazardous conditions.

- **Smart Breaker (Short Circuit & Overload Detection)**

  ESP32, C++, Blynk

  - Developed a protective electrical system capable of detecting short circuits and overload conditions.
  - Automated circuit disconnection to improve safety and prevent equipment damage.
  - Responsible for writing the code and integrating hardware and software components to ensure proper system functionality.

- **SaveWise – Expense Tracker Website**

  JavaScript, CSS/HTML

  - Created a responsive expense tracking web application with CRUD functionality and user authentication.
  - Designed to help users monitor spending and improve personal financial management.

- **Etch-a-Sketch Interactive Drawing Game**

  HTML/CSS, JavaScript

  - Built an interactive web drawing game with customizable grid, color selection, and reset features.
  - Focused on responsive design and JavaScript-based DOM manipulation.

TECHNICAL SKILL

- **Programming Languages:** Python, JavaScript, C++
- **Web Development:** HTML, CSS, React, React Native
- **Embedded Systems & IoT:** ESP32, Raspberry Pi, Arduino UNO Sensors, Blynk
- **Tools & Platforms:** Git, GitHub, Visual Studio Code
- **Soft Skills:** Problem Solving, Critical Thinking, Collaboration, Communication

EDUCATION

Bachelor of Science in Computer Engineering   **2025 — Present**
Cebu Technological University – Danao Campus
Accountancy, Business, and Management   **2016 — 2022**
Consolacion National High School - DC (*with honors*)

ADDITIONAL INFORMATION

- Open to internship and On-the-Job Training (OJT) opportunities.
- Familiar with Agile development and version control (Git).
- Interested in IoT, front-end development, and automation.
- Technical Committee Member, ICpEP.SE – CTU Danao

CERTIFICATIONS:

- 2024 — Programming Java NC III – TESDA
- 2023 — Creative Web Design – TESDA
- 2023 — Robomania – (Participant)
- 2023 — ICpEP.SE Seminar – 'Git Good at Version Control

REFERENCE

Engr. Chona R. Dagatan
OJT Coordinator | BSCpE Chairperson
0995 619 7549