Meredith M. Roncejero

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I am a 4th-year student pursuing a Bachelor of Science in Information Technology degree at Camarines Norte State College (CNSC), Daet, Camarines Norte and aspiring software and IoT developer with hands-on experience in Python, Java, HTML, CSS, and JavaScript. Knowledgeable in database handling using PostgreSQL and MySQL, IoT development with Arduino and Raspberry Pi, and UI/UX design using Figma, Canva and basic 3D modeling using 3ds Max. Actively seeking opportunities to grow and apply skills in software and IoT-based development with eagerness to learn.

Educatio

Camarines Norte State College
Bachelor of Science in Information Technology, August 2022 - Present

Skills

- **IoT Developer**: Raspberry Pi (Intermediate) • Arduino uno (Intermediate)
- **Frontend Development:** HTML (Intermediate) • CSS (Intermediate) • JavaScript (Intermediate)
- **Backend & Databases:** Python (Intermediate) • Java (Basic) • MySQL (Intermediate) • SQLite (Intermediate) • PostgreSQL

(Intermediate)

- **UI/UX Design & Creativity:** Figma (Creative) • Canva (Intermediate) • Responsive Wireframe • User Flow & Prototyping
- **Version Control & DevOps:** Git (Basic) • GitHub (Basic) • Porkbun (Basic)
- **AI, API & Automation:** Machine Learning (Basic) • Data Analysis (Intermediate) • Rule-Based AI (Intermediate)
- **3D, Game Development & Multimedia:** 3ds Max (Basic) • Unreal Engine (Basic) • Premiere Pro (Basic) • After Effects (Basic) ● **Professional:**

Problem-Solving & Analytical Thinking • Debugging & Testing • Version Control Practices (Basic) • Team Collaboration.

Project Experience:

Eye Can See Optical Clinic Appointment and Management System with IoT-based face shape analysis and AI-driven frame recommendation.
ROLE: IoT Developer - Backend Developer - Frontend Developer **Jan. 2025 – Dec. 2025**

- Reduce manual appointment handling and record processing time by 40-50%by digitalized paper-based workflows and automating scheduling and data retrieval.
- Integrated AI-driven frame recommendation and IoT-based face shape analysis, improving frame selection accuracy and enhancing the overall frame recommendation features.
- Designed and developed IoT-enabled system architecture integrating hardware devices with backend services • Programmed microcontrollers (Raspberry Pi) to collect, process, and transmit sensor data
- Managed databases for patient data, appointments, and recommendation results.
- Designed and developed UI/UX interfaces for users, focusing on usability and clear workflow navigation for the appointment system.
- Developed admin-side frame recommendation features using condition-based rules and scoring to suggest suitable eyeglass frames.

Autonomous Egg Quality Efficient through IoT and Image Processing Technologies **Feb. 2024 – Dec. 2024 ROLE: IoT Developer**

- Develop an IoT-enabled hardware system integrated with a Raspberry Pi-based conveyor controller, enabling automated duck egg quality sorting for balut, penoy and abnoy identification and real-time monitoring.
- Designed safe hardware mechanisms to handle eggs without damage during inspection.
- Integrated motor, sensor, and image processing systems for efficient quality assessment.

Agent Based Simulation and GIS mapping of Tuberculosis Transmission: A Case Study in Daet, Camarines Norte ROLE: GIS Mapping Developer **Nov.2024 - Dec. 2024**

- A Case Study in Daet, Camarines Norte Combining Geographic Information System (GIS) and Agent-Based Simulation (ABS) to asses and forecast TB transmission in Daet, Camarines Norte
- Developed GIS-based maps to visualize and analyze tuberculosis (TB) transmission patterns in Daet, Camarines Norte.
- Integrated Geographic Information System (GIS) data with Agent-Based Simulation (ABS) models to assess and forecast TB spread.
- Processed, managed, and analyzed spatial and demographic data to support disease modeling and decision-making.

R-Closet Sales & Inventory System **Feb. 2023 – May. 2023**
ROLE: UI/UX Designer, Backend Developer

- Reduce inventory checking and order processing time by 35-45 % by digitalizing manual workflows and automating stock updates and transaction logging.
- Designed and implemented a user-friendly desktop frontend using Tkinter, enabling faster order entry and real time inventory visibility.
- Built and maintained the backend using Python and SQLite, managing hundreds of product and transaction records with improved data accuracy and reliable performance.

Aqua Alert **Nov. 2023 - Dec. 2023**
ROLE: UI/UX Designer

- An IoT-based flood prediction and Early warning system.
- Designed high-fidelity interactive screens and user flows application, incorporating flood monitoring, location detection, evacuation assistance, safety indicators, real-time data collection, and predictive analytics.
- Conducted user testing and feedback sessions to improve usability, accessibility, and overall user experience.

CERTIFICATIONS:

- Technical Support Fundamentals — Google (Coursera), Dec 2024
- Networking Basics — Cisco Networking Academy, Dec 2024
- Bicol IT Students Congress (BITSCON), Apr 2024 — Camarines Norte State College
- Creative Seminar in Portfolio Making, Mar 2025 — Camarines Norte State College
- From Scroll to Skill, Mar 14, 2025 — Our Lady of Lourdes College Foundation Inc.

CHARACTER REFERENCE:

Edgar Bryan B. Nicart, DIT
Professor, Camarines Norte State College (CNSC) edgarbryannicart@cnsc.edu.ph