Meredith M. Roncejero

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Daet Jose Panganiban Camarines Norte

I am a 4th-year student pursuing a Bachelor of Science in Information Technology degree. Aspiring Mobile, Website developer, UI/UX designer and IoT developer with technical skills in Python, Java, HTML, CSS, and JavaScript. Knowledgeable in database handling using PostgreSQL, MySQL, Xampp and SQLite. Also creative in designing using Figma, Canva and basic 3D modeling using 3ds Max. Actively seeking opportunities as an IT intern to grow and apply my skills in mobile, website development, data management and UI/UX designer.

Education

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

Skills

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

- Developed a management system with appointment and inventory features, enhanced by an AI-driven frame recommendation to replace paper-based records and help clients choose suitable eye frames.
- 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

- Created a website to track the sales management and inventory record for the sorted type of egg.
- 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

- Create an inventory and sales management system to improve 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 UI/UX design.
- 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:

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