

Ramon Carlos E. Pacilona

ramoncarlospacilona22@gmail.com | <https://www.linkedin.com/in/ramoncarlospacilona> | github.com/SuperCaloy
Cabuyao City, Laguna

EDUCATION

Bachelor of Science in Computer Science

University of Cabuyao | Expected Graduation: 2027

- **Relevant Coursework:** Backend Development, Web Security, Database Structures, Machine Learning, Software Engineering, Game Development.

TECHNICAL SKILLS

- **Backend Frameworks & Languages:** PHP, Laravel, Java, Python
- **Frontend Technologies:** React, CSS, Tailwind CSS
- **Database Management:** MySQL
- **DevOps & Tools:** Docker, Git, RESTful APIs, Containerization
- **Cybersecurity & Advanced Concepts:** Web Security, Cryptography (Hashing/Salting), Penetration Testing Concepts, Machine Learning (ML), Software-Defined Networks (SDN), DDoS Mitigation

PROFESSIONAL EXPERIENCE

Shopee (SOC 5) | Calamba City, Laguna

Outbound Operations Associate (Part-Time) | Jun 2024 – Aug 2024

- **Managed package data for 30+ daily delivery trucks** using Microsoft Excel during peak sales volume, ensuring seamless outbound logistics operations.
- **Achieved near-100% data accuracy** in sorting and reporting parcel lists by destination hub, minimizing delivery delays and routing errors.
- **Accelerated downstream unloading operations** by proactively generating and transmitting detailed shipment reports prior to truck arrivals.

PROJECTS

Cascaded ML-Based DDoS Mitigation in SDN (Thesis) | Backend API & ML Training

- **Developed core backend APIs and mitigation mechanisms** to automatically intercept and neutralize DDoS attacks within Software-Defined Networks (SDN).
- **Trained and architected a cascaded machine learning pipeline** utilizing Isolation Forest for anomaly detection and Random Forest for traffic classification.
- **Designed rigorous testing protocols** to evaluate model accuracy in real-time threat detection, aiming to enhance precision while minimizing false positives.

AI Reviewer Generation Web App | Frontend Development, API Integration

- **Engineered a robust client-side study platform** by aggregating 5 Large Language Model APIs (Gemini, Groq, Mistral, SambaNova, OpenRouter) to automatically generate comprehensive quizzes, summaries, and dynamic mind maps.
- **Engineered frontend data pipelines** capable of processing, chunking, and synthesizing up to 5 extensive educational modules simultaneously, reducing manual study preparation time by an estimated 80%.
- **Optimized state management and API integration architecture** to handle highly concurrent LLM requests directly from the client without relying on a traditional backend infrastructure.