

# MARC DANIEL CARACAS

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## EXPERIENCE

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### Full-Stack Developer and AI Automation, OneMiners Oct 2025 - Present

- Built and maintained a SaaS platform using Next.js, Supabase, and Vercel (CI/CD) → developed dashboards, user/order management, and role-based access → improved UX, reduced bugs, and supported user growth
- Refactored legacy code and optimized existing APIs/queries → enhanced maintainability and ensured stable backend performance
- Developed AI-powered and CRM automations using n8n, OpenAI, and webhooks → automated content, posting, and data workflows → reduced manual workload
- Customized and managed WordPress sites using Elementor and scripts → improved content update efficiency

### Full Stack Developer Intern, Provincial Government of Pangasinan Feb 2025 - May 2025

#### Internship | HRMDO

- Built and enhanced HR web systems (HTML, CSS, JavaScript, PHP, MySQL) → streamlined data processing and internal workflows → improved HR operational efficiency
- Developed a desktop application using Flutter for vacancy form and record management → digitized and organized HR processes → improved data accessibility and reduced manual tracking
- Troubleshoot and optimized HR system features → ensured data accuracy and reliability → supported smooth day-to-day HR operations

### Freelance Developer May 2024 - Present

#### Independent Projects | Contract-Based

- Built and deployed 5+ ML, IoT, and web/mobile apps (Python, TensorFlow, React, Flutter, Firebase) → automated client workflows and improved UX.
- Oversaw full project lifecycle → ensured on-time delivery and client satisfaction.

## PROJECTS

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### Weather Monitoring System IoT with Mobile App Nov 2025 - Dec 2025

#### Commissioned Project

- Engineered a solar-powered IoT system using ESP32 and environmental sensors → delivered real-time weather data (humidity, rainfall, wind, pressure) for continuous field monitoring
- Developed a mobile app with Wi-Fi integration → enabled remote access, improved data reliability, and supported 24/7 outdoor deployment

### Retrieval-Augmented Generation (RAG) Chat Application Sept 2025 - Oct 2025

#### Personal Project

- Built a RAG chat app with FAISS, ChromaDB, FastAPI, and React → improved document retrieval speed by 40%.
- Deployed via Docker on Hugging Face Spaces with AI-assisted coding → reduced manual deployment time by 2 hours.

## Coconut Multimodal Classification Model (Audio & Image)

Aug 2025 - Oct 2025

Commissioned Project

- Developed a multimodal deep learning model using CNN architectures (TensorFlow/PyTorch) combining image and audio spectrogram inputs → improved classification accuracy and robustness over single-modality models
- Preprocessed audio into spectrograms and trained separate + fused models → enhanced prediction reliability under varying environmental conditions and data noise

## Filipino Food Image Classification App (Adobo vs Sinigang)

Aug 2025 - Oct 2025

Commissioned Project

- Developed an image classification model using deep learning (CNN) to distinguish Filipino dishes (Adobo vs Sinigang) → achieved reliable prediction performance on real-world images
- Built a Flutter mobile app integrating the ML model → enabled real-time food recognition and user interaction on mobile devices

## Recipe Hybrid Recommendation System with Mobile Application

June 2024 - Nov 2024

Thesis | Pangasinan State University

- Built a hybrid ML-powered recipe recommendation app → delivered personalized recipe suggestions → enhanced user experience and engagement.

## SKILLS

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*Languages: Python, JavaScript, TypeScript, SQL*

*Frameworks & Libraries: Next.js, React, React Native, Flutter, FastAPI, Flask, TensorFlow*

*AI/ML: Hugging Face Transformers, RAG, FAISS, ChromaDB, Computer Vision, Classification & Prediction Models*

*Backend & Databases: Supabase, Firebase, MySQL, MongoDB, REST APIs, Serverless Architecture*

*Tools & Platforms: Docker, CI/CD, n8n, Hugging Face Spaces, Roboflow, Vercel*

*AI Tools: ChatGPT, Claude, Freshchat Freddy AI*

*Other: Full-Stack & Mobile Development, API Integration, Deployment, Prompt Engineering*

## EDUCATION

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### Bachelor of Science in Computer Science

Aug 2021- Aug 2025

Pangasinan State University

- GWA : 1.42/5.0, Academic Distinction (Top 5%)