Dallas Aquino

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Education

West Visayas State University – La Paz Campus **Expected 2027**
Bachelor of Science in Computer Science, Major in Artificial Intelligence *Iloilo City, Philippines*

Experience

Software Development Intern **June 2026 – July 2026**
Robo Code Technologies Inc. *Roxas City, Capiz (Remote)*

- Completed a 200-hour internship developing RCC ERP, a comprehensive Next.js and React-based enterprise application tailored for banquet, catering, and food-service operations.
- Engineered seamless full-stack data flows by connecting Next.js server actions to a Directus API and permission layer, managing a robust PostgreSQL database.
- Built and optimized core business logic across three main system modules: **Banquet:** Managed client profiles, event orders, customized menu planning, billing, and equipment dispatch; **Inventory:** Implemented stock lifecycle tracking, stock movements, reconciliation, expiry management, and inventory valuation; **Purchasing:** Automated supplier directories, purchase requests, approval workflows, and delivery tracking.

Projects

ReadyFrame – Virtual Framing Studio | *Next.js, React, Konva.js, Zustand, Appwrite, IndexedDB* **2026**

- Developed a precision virtual picture framing and fine-art simulation studio using Next.js 16 and Konva, featuring photorealistic moulding textures, multi-layer passe-partout matting, digital signatures, and museum typography plaques.
- Engineered a real-time Reinhard AI scene lighting harmonization algorithm that analyzes interior room plates (<5 ms) to compute dynamic drop shadow angles, luminance centers-of-mass, and color temperature adaptation.
- Architected an offline-first PWA pipeline with IndexedDB image caching and background sync, integrated with Appwrite Cloud BaaS.

Pasabay – Peer-to-Peer Package Delivery App | *Flutter, Dart, Supabase, Google Maps API* **2025**

- Supported the development and maintenance of a route-optimized logistics platform, ensuring seamless connectivity between senders and commuters.
- Designed and implemented the initial database schema and integrated Supabase to power the platform's backend, facilitating real-time data management and synchronization.
- Led the end-to-end UI/UX design process, creating intuitive user interfaces that streamline package tracking and peer-to-peer logistical workflows.

MangoSort – Automated Post-Harvest Mango Grading | *PyTorch, YOLOv8, ONNX Runtime, OpenCV* **2026**

- Curated and polygon-annotated an instance segmentation dataset across 5 PNS/BAFS defect classes in Roboflow, applying offline augmentation to scale 2,510 raw images into 9,538 samples.
- Trained the 45.9M-parameter YOLOv8-Large teacher model and the lightweight YOLOv8-Nano baseline (Seed 0) on an NVIDIA T4 GPU, implementing an Attention-Based Knowledge Distillation (AT-KD) pipeline.
- Achieved 0.498 mask $mAP_{50\text{-}95}$ on Seed 0 and 5.83% MAPE in virtual weighing, deploying the ONNX model to a Raspberry Pi 5 sustaining 4.1 FPS inference with zero thermal throttling.

Technical Skills

Languages: TypeScript, JavaScript, HTML/CSS, Python, SQL (Postgres), Dart
Frameworks and Libraries: Node.js, Next.js, React, Flask, Gunicorn, Flutter, FastAPI
Machine Learning: TensorFlow, Keras, PyTorch, Hugging Face Transformers, tokenizers, safetensors, spaCy, seqeval
Developer Tools and Design: Git, GitHub, VS Code, Supabase, Vercel, Figma
Data and Serialization: Label Studio, Roboflow

Certificates

Relational Database V8 Developer Certification | *freecodecamp.org* **2026**