Benedict San Juan

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EDUCATION

De La Salle Lipa *2023 - Present*
Bachelor of Science in Computer Science, 4th Year
Relevant Course Work: Software Engineering, Web Development, Data Science, Artificial Intelligence

PROJECTS

ASMS - Ancillary Services Management System

- Built a role-based operations platform **(Next.js, TypeScript, Supabase)** consolidating **14 ancillary departments** of Mary Mediatrix Medical Center into one system serving **15+ key stakeholders** across **3 organizational tiers**.
- Designed dashboards tracking month-over-month and year-to-date trends across **4 KPIs** (revenue, census, inputs, equipment utilization) with department-scoped filters for data-driven decisions and performance tracking.
- Coordinated with the hospital's Ancillary Director to onboard all users, including the **AVP, division, & department heads**.

AnimoMart - DLSL E-Commerce Marketplace

- Spearheaded the full-stack development of a web-based E-Commerce marketplace platform with **React, Vite, MongoDB**.
- Architected and developed a full-stack REST API backend from scratch for a peer-to-peer student marketplace exposing **12 route modules** with a clean layered structure separating controllers, services, validators, and middleware.
- Engineered an AI-powered semantic search feature using the **Gemini gemini-embedding-001** model to generate **768-dimensional vector embeddings** for product listings and recommendations, storing them in MongoDB.

Project QOL - DLSL Event Attendance Monitoring System

- Built the backend for a web-based event attendance platform serving multiple campus organizations on **Next.js App Router**, enforcing a strict **client → server action → DAL → database** separation across **10+ features**.
- Designed a **time-bound event code system** reducing unauthorized attendance logging risk through code-scope access control.
- Integrated an external Student API with attendance records enabling an **RFID card tap terminal** to validate and commit student attendance in a single server action call, cutting manual attendance processing to **near-zero**.

LEADERSHIP & COMMUNITY INVOLVEMENT

Developer's Society, DLSL (ANIMO.DEV) *August 2025 – December 2025*
Backend Developer Head

- Led backend architecture for an event attendance system **(Next.js App Router, Supabase PostgreSQL)**, establishing a **Database Access Layer (DAL) pattern** that standardized all database interactions across all contributing developers.
- Directed a multi-step attendance pipeline, with event code validation, external API fetch, duplicate check, and persistence, consolidated into a **single atomic server action** reducing data inconsistency points.
- Coordinated and communicated backend contract documentation **(inputs/outputs, error shapes, architecture constraints)** that reduced contributor onboarding time and ensured team-wide consistency.

HACKATHON AWARDS

- C(Old) (ST)art Hackathon - ***1st Runner Up & People's Choice Award*** *November 2025*
- CodeKada: The Innovation Hackathon - ***3rd Place*** *November 2025*
- OGIS IGNITE PH 2025 - ***3rd Place*** *October 2025*

SKILLS

Languages: JavaScript, TypeScript, Python, SQL, HTML, CSS
Frameworks/Libraries/Devtools: React, Next.js, Node.js, Git, Github, Visual Studio Code
Soft Skills: Communication, Time Management, Problem Solving, Analytical Thinking, Attention to Detail