




Daniel Hardy C. Camacho

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Education

Pamantasan ng Lungsod ng Maynila
Bachelor of Science in Computer Science

Intramuros, Manila
August 2023 - Present

Universidad de Manila
TVE - ICT | with High Honors

Ermita, Manila
August 2021 - July 2023

Experience

Google Developer Student Clubs - PLM
Web Development Lead

Manila, Philippines
October 2023 - Present

- Lead and mentor a team of **10+ aspiring web developers** in building and deploying official **GDSC-PLM event websites**.
- Spearheaded the development of web platforms supporting **tech events attended by 100+ participants**, ensuring reliable access to event information and resources.
- Organized and facilitated web development study jams attended by 40+ participants, teaching foundational web development concepts to aspiring developers.
- Served as a **Core Developer**, implementing key features using **Next.js, React, and Tailwind CSS**, while collaborating through **Git-based version control and code reviews**.

PLM Computer Science Society
Auditor

Manila, Philippines
October 2023 - June 2024

- Coordinated with **sponsors and external organizations** to establish partnerships supporting society initiatives and events.
- Assisted in organizing **technical events and community initiatives**, contributing to the growth of the organization's network and student engagement.
- Co-organized a technology seminar **attended by 100+ participants**, expanding engagement within the computing community.
- Managed auditor responsibilities by preparing and submitting **required reports, documentation, and organizational records**, ensuring accuracy and **on-time delivery of key society documents**.

Projects

Smart Multi-Institute Queuing System | Node.js, Express, TypeScript, Next.js, SQLite, Google Gemini API
AI-Powered Government Queuing Platform

Lead Backend Developer
Pamantasan ng Lungsod ng Maynila

- Led the development of the system architecture and backend services, coordinating development across multiple frontend applications and service modules.
- Designed a **multi-role digital queuing system** using a **three-tier architecture** supporting applicant, counter staff, and administrative interfaces.
- Built an **AI-assisted service selection system** using Google Gemini API to guide applicants through government service workflows and dynamic form submissions.
- Developed an **intelligent queue management algorithm** implementing **priority handling (PWD, senior citizens) and FIFO scheduling** with round-robin counter distribution.
- Implemented **session-based state management using SQLite and Express sessions**, enabling real-time queue tracking, counter authentication, and multi-device monitoring.

Sta. Mesa 587 Connect | Next.js, TypeScript, PostgreSQL, Firebase, Tailwind CSS
Barangay Citizen Portal

Project Lead & Backend Developer
Barangay 587, Sta. Mesa, Manila

- Led an Agile development team of 4 through **sprint-based development**, coordinating system design, task planning, and feature delivery.
- Collaborated directly with **barangay officials as project stakeholders**, gathering requirements and translating government workflows into system features.
- Developed backend services and database logic for a **centralized information management system** supporting document requests, incident reports, resident records, and targeted announcements.
- Designed a **secure resident account system with verification, OTP authentication, and role-based admin access**.
- Built a scalable platform intended to support **1,000+ residents**, automating previously manual barangay processes such as document requests, announcements, and issue reporting.

PORTIA Programming Language & Compiler | React, Node.js, Python
Programming Language & Compiler

Language Designer & Core Developer
Pamantasan ng Lungsod ng Maynila

- **Designed the PORTIA programming language**, defining its syntax, grammar rules, and supported control structures.
- Led the development of the **PORTIA compiler**, translating high-level programs into **three-address intermediate code (TAC)**.
- Implemented **lexical analysis, syntax parsing, and semantic validation** to process program instructions and detect compilation errors.
- Built core language features including **variables, loops, conditional statements, and arithmetic operations**.
- Developed **symbol table management and intermediate code generation modules** to support program execution.

TALLY – Teach and Learn Life Yields | FlutterFlow, Supabase
Educational Android Application | Winner – Best Working App Award (₱10,000 Prize)

Project Lead
GDGOC - PLM InnOlympics 2025

- Led a **4-member team** in developing an educational Android application designed to support interactive learning and financial literacy.
- Implemented the **backend data architecture using Supabase**, managing user data, learning content, and application state.
- Coordinated development workflows and feature implementation to deliver a **fully functional prototype within a competitive hackathon timeline**.
- Successfully **pitched the project to a panel of judges**, highlighting the system's functionality, architecture, and potential impact.

Technical Skills

Programming Languages: Python, TypeScript, JavaScript, Java, C
Databases: SQLite, SQL, PostgreSQL, Supabase, Firebase, NeonDB
Frameworks: Express.js, Next.js, React, Spring Boot, Tailwind CSS

Tools & Platforms: Git, Figma, Android Studio, Unity, AWS S3, AWS DynamoDB, Kubernetes, Docker, Vercel
Concepts: Object-Oriented Programming, Data Structures & Algorithms, Automata Theory & Formal Languages, Compiler Design