

Noel Niño Olvis

Pasay City, Philippines | +63 945 376 2939 | noelninoolvis.snhs@gmail.com | [Portfolio](#) | [LinkedIn](#) | [GitHub](#)

EDUCATION

Cebu Institute of Technology – University

Bachelor of Science in Computer Engineering

Cebu City, Philippines

Aug. 2022 – May 2026

TECHNICAL SKILLS

Languages & Backend: C/C++, Python, TypeScript, Node.js, FastAPI, Express.js, PostgreSQL, Supabase, Redis, LiveKit
Embedded & IoT: ESP32, PlatformIO, AWS IoT Core (MQTT/TLS), ADS1115, PID Control Loops, Hardware Interfacing
Frontend & Mobile: Next.js, React, React Native, Expo, Tailwind CSS, shadcn/ui, Framer Motion, React Flow, Zod
AI & MLOps: GraphRAG, pgvector, Google Gemini, LangChain, Vercel AI SDK, DeepEval, Ragas, MLflow
DevOps & Integrations: Turborepo, Docker, CI/CD, Git, Vercel, PayMongo API, Resend, PostGIS

EXPERIENCE

Full-Stack Developer (Freelance)

July 2026 – Present

Pundasyon PH — Heavy Construction Marketplace

pundasyon.ph

Next.js, TypeScript, Supabase, TanStack Query, IndexedDB, Zod, PayMongo

- Refactored a 1,000+ line server actions file into 4 Domain-Driven Design (DDD) packages within a Turborepo monorepo, cutting codebase coupling by **~40%**.
- Engineered an offline-first CQRS milestone tracker with IndexedDB and TanStack Query; authored PostGIS k-NN queries driving routing latency to **<50ms**.
- Automated an escrow payment handshake via the PayMongo API and a double-entry ledger, triggering **zero-drift** payout splits on verified delivery RPC calls.
- Secured multi-tenant access with Supabase RLS and **FOR UPDATE** locks to eliminate race conditions; blocked mass-assignment risks using Zod schemas.

PROJECTS

Smart Rainwater Harvesting & Filtration System (Thesis)

[GitHub](#)

Embedded C++, ESP32, AWS IoT Core, PlatformIO, React Native, PID Control, Supabase

- Programmed a 9-state finite state machine on an ESP32 in C++, pairing 16-bit ADC signal filtering with a time-proportioned PID loop to prevent chemical pH overshoot.
- Streamed sensor telemetry over TLS-encrypted MQTT to AWS IoT Core, surfacing real-time Skia quality charts and remote PID tuning in a React Native app.

Istifsar AI — GraphRAG History Platform

istifsar-ai.vercel.app

TypeScript, Next.js, Supabase (pgvector), Gemini 2.5 Flash, GraphRAG, Redis

- Engineered a GraphRAG retrieval pipeline using PostgreSQL recursive CTEs and pgvector hybrid search, resolving multi-hop graph queries in **<150ms**.
- Parsed **1,000+** historical nodes with Gemini 2.5 Flash and mapped contradictions in React Flow, cutting hallucinations by enforcing a **>0.85** cosine similarity threshold.

Autonomous Support Escalation Engine

[Live Web App](#)

Python, FastAPI, Next.js, LangChain, DeepEval, n8n, Server-Sent Events (SSE)

- Built a support routing engine with FastAPI and Next.js, streaming Chain-of-Thought reasoning to clients via Server-Sent Events (SSE).
- Evaluated responses asynchronously for hallucinations using DeepEval, routing hostile sentiment and safety violations to human agents through n8n and Slack.

Irshaad AI — Real-Time Voice Coaching Platform

irshaad-ai.vercel.app

TypeScript, Next.js, React Native, LiveKit, Supabase, Turborepo

- Deployed a centralized LiveKit worker in a Turborepo monorepo, achieving sub-**300ms** voice responses across web and mobile.
- Built a Node.js document ingestion API with automated cron pre-warming, eliminating cold starts and accelerating session startup by **~60%**.

CERTIFICATIONS

HubSpot Academy

AEO Certification

Online

Jul. 2026 – Aug. 2028