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WORK EXPERIENCE

Nanoprograms

2025-Present

Co-Founder/Developer

Zamboanga City

- Co-founded and secured DTI registration for a technology startup to deliver custom software and IoT solutions, successfully managing the entire project lifecycle from drafting service agreements to final deployment.
- Architected hardware-to-cloud telemetry pipelines utilizing ESP32 microcontrollers and WebSockets to solve complex operational bottlenecks, directly enabling clients to successfully launch and defend real-time tracking systems.
- Spearheaded the technical direction of the company by adopting an offline-first development approach with React and Supabase, ensuring all client applications remained highly functional in low-connectivity environments.

Freelance

2024 - Present

Full-Stack Developer

Zamboanga City

- Partnered with diverse clients to gather business requirements and engineer specialized web and mobile applications to digitize manual workflows and improve overall service accessibility.
- Developed robust, cross-platform interactive systems—ranging from e-commerce platforms with custom logic to university booking portals—resulting in scalable, user-ready digital products.
- Implemented complex state management and database schema designs to handle secure data storage and real-time user authentication, significantly boosting the security and reliability of client deliverables.

PROJECTS

SaktoBa

May 2026

Full Stack Developer

<https://saktoba.online/>

- Wrote a Cheerio scraper targeting all 17 RTWPB DOLE regional portals, mapping region-specific DOM structures to a normalized PostgreSQL schema via PSGC codes.
- Routed all reads through a Deno Edge Function with 24-hour CDN and browser cache headers, eliminating redundant database hits while keeping wage data fresh daily.
- Wired the React frontend to a TanStack Query useWagesData hook that drives an interactive map and sidebar — the site hit 10.3k visitors and was featured on Bettergov.ph.

GABAY SNED Desktop

Full Stack Developer

- Built a role-driven desktop workspace so Admins and Faculty can access separate dashboards, content tools, and classroom controls without cross-role clutter.
- Added persistent local session handling and secure Electron IPC bridges to protect app state while preserving a responsive desktop UI.
- Delivered a polished offline-capable desktop control center that supports adaptive teaching workflows and makes classroom oversight faster.

EDUCATION

Western Mindanao State University

BS Computer Science