NELSON E. FERNANDEZ

ENTRY-LEVEL FULL-STACK WEB DEVELOPER

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PROFESSIONAL SUMMARY

BS Industrial Technology graduate (Computer Technology) who builds and deploys full-stack web apps with Next.js, React, TypeScript, and PostgreSQL. Shipped four live projects, including a Proof-of-Stake blockchain with 400+ automated tests. Brings IT support experience and five years of detail-focused warehouse work.

TECHNICAL SKILLS

Frontend: React, Next.js, TypeScript, JavaScript, HTML, CSS, Tailwind CSS
Backend: Node.js, Express, Python, FastAPI, REST API concepts, authentication, RBAC
Database: PostgreSQL, Supabase, SQLite, Drizzle ORM
Tools & Quality: Git, GitHub, pnpm, Vitest, Playwright, pytest, ESLint
Additional: Flutter, Dart; AI tools for development support and learning

SELECTED PROJECTS

nel-chain — Proof-of-Stake Learning Blockchain | *Next.js 16, TypeScript, Node.js, WebSocket, Vitest*
- Built a Proof-of-Stake blockchain from scratch (VRF validator selection, no mining) with a multi-node testnet, block explorer, and wallet app.
- Wrote 400+ automated tests and a threat model; shipped in 80+ small phases, including a planned hard fork on the live testnet.

Live: https://nel-chain.vercel.app/

Small Lending — Lending Management Web Application | *Next.js 16, TypeScript, PostgreSQL, Drizzle ORM, Zod, Vitest*
- Built a lending app for borrowers, loans, and payments, with separate admin and borrower areas.
- Added Google sign-in, borrower approval, role-based access, activity history, and search.

Live: https://small-lending.vercel.app/login

Jean Shop — Tailoring Business Website & Management System | *Next.js 16, TypeScript, Tailwind CSS 4, Supabase, PostgreSQL*
- Built a responsive tailoring-business website with service pages and an inquiry form.
- Built an owner-only admin panel for customers, measurements, services, orders, payments, and expenses.

Live: https://jean-shop.vercel.app/

AETERN — Social Network Prototype | *Next.js 16, React, TypeScript, Node.js, WebSocket, Playwright*
- Built a privacy-focused social network prototype: identity recovery, profiles, feeds, WebSocket relay, invites, and moderation.
- Wrote architecture and threat-model docs explaining security trade-offs and known limits.

Live: https://aetern.pages.dev/ | Source: https://github.com/nelson1869-ai/aetern

WORK EXPERIENCE

Warehouse Checker — Suysing | 2020–Present
Check and verify warehouse items against records in daily operations, keeping counts accurate and following company procedures.

IT Support / OJT Trainee — Jega Bytes, Bacolod City | 2018–2019
Assisted with desktop troubleshooting, computer assembly and repair, printer troubleshooting, and CCTV installation.

EDUCATION

Bachelor of Science in Industrial Technology (BSIT), Major in Computer Technology
Carlos Hilado Memorial State University (CHMSU) | Graduated July 2020
Dean's Lister — First Year, First Semester