

ADRIAN KARLO D. SIANGCO

Full-Stack Web Developer

Cagayan de Oro, Philippines (GMT+8) | [E-mail](#) | [GitHub](#) | [LinkedIn](#)

PROFESSIONAL SUMMARY

Full-stack developer and MIT candidate (final semester) at USTP with hands-on experience architecting and deploying production-ready web applications across React, TypeScript, Django REST Framework, Node.js, and Supabase. Brings a research edge through active thesis work in blockchain-based archival integrity and applied data mining experience in Python and Flask — combining academic depth with real-world delivery across frontend, backend, infrastructure, and IT systems. Open to project-based freelance work and mid-level roles where full-stack fundamentals, systems thinking, and research background can contribute to meaningful product outcomes.

PROJECTS

LegalTrack — Multi-Tenant SaaS for Philippine Law Firms

Present

Next.js, TypeScript, Supabase, Tailwind CSS, Leaflet, PayMongo, Cloudflare Turnstile

- Architected a multi-tenant SaaS platform for Philippine law firms with self-registration flow, lawyer profiles, public firm pages, and consultation booking — positioning is as an “Airbnb of Philippine legal services” with a tiered subscription models.
- Integrated Leaflet maps for firm location display, Cloudflare Turnstile for bot protection, and designed PayMongo billing integration to support subscription-based revenue collection for law firm clients.

Blockchain Document Archival System — Master's Thesis (ongoing)

2025 – Present

Hyperledger Fabric, IPFS, Node.js, Redis, RBAC

- Architected a 3-organization Hyperledger Fabric network with a private IPFS swarm, enabling tamper-evident archival of university registrar records and eliminating single points of failure in document storage
- Enforced role-based access control across four independent layers (chaincode, API, UI, and database), ensuring no unauthorized cross-role data access across all three organizations in the network
- Built a multi-step re-archival approval workflow with immutable on-chain audit trail, successfully validated by university registrar stakeholders in a working multi-node prototype evaluation

Chauffeur Booking Management System — Client Project

2026

React, TypeScript, Tailwind CSS, PWA, Google Maps API, Django REST Framework, PostgreSQL

- Architected the platform as a PWA with a single shared codebase, delivering a fully installable experience across mobile, tablet, and desktop and eliminating the need for separate native app development
- Integrated Google Maps Places Autocomplete and Directions API to enable real-time address lookup and travel-time estimation, reducing manual booking input and improving address accuracy for end users
- Built and deployed Django REST Framework backend with structured PostgreSQL models, enabling full booking lifecycle tracking across four trip statuses (Pending, Confirmed, Completed, Cancelled) and supporting seamless frontend-backend data flow

Links: [Live demo](#) | [Frontend](#) | [Backend](#)

Website Revamp + Interactive Scorecard — Client Project

2026

React, Tailwind CSS

- Rebuilt client-facing website and engineered an interactive scorecard with conditional result logic and partial-reveal strategy, designed to convert scorecard completions into newsletter signups

Links: [Live demo](#)

Responsive E-Commerce Platform — Pro Bono

2026

React, Supabase, Tailwind CSS

- Built a responsive e-commerce storefront with RLS-enforced data access and reusable component architecture, delivering a production-ready foundation that reduced future development effort for cart and checkout integration

Links: [Live demo](#)

ApprioApp — Association Rule Mining Tool — Course Project

2025

Python, Flask, Pandas, Jinja2, Bootstrap, Render

- Built and deployed a web-based association rule mining tool implementing the Apriori algorithm, enabling users to discover frequent itemsets and generate rules from uploaded transaction datasets

- Engineered configurable support and confidence thresholds with rule output displaying support, confidence, and lift metrics for interactive data exploration and pattern visualization

Links: [Live demo](#) | [GitHub](#)

PROFESSIONAL EXPERIENCE

IT Support & Systems Administrator — Pepsi-Cola Products Philippines, Inc.

2023 (2 mos.)

DOST-JLSS scholarship return of service

- Configured Cisco switches including VLAN setup and port assignment to support network segmentation across manufacturing and office departments
- Administered Active Directory for user account management, domain join, OU organization, and Group Policy (GPO) enforcement across all plant workstations
- Set up and maintained plant communication systems including PABX and CCTV, and managed Epson printer fleet and workstation upgrades for incoming personnel
- Managed hardware/software asset inventory, SAP and Outlook configuration, and mailbox merging across all plant departments, maintaining auditable IT records throughout the 6-month deployment

Software Engineer — Fligno Software Philippines, Inc.

Nov 2021 – Mar 2022 (186 hrs OJT)

Internship

- Designed wireframes and UI/UX in Figma for a storage marketplace platform (web and mobile) commissioned by an Australian client, securing stakeholder approval on the proposed designs
- Developed and implemented the approved UI designs into a responsive React frontend, translating Figma mockups into functional web and mobile interfaces as part of a collaborative development team
- Exceeded expectations as recognized in the official certificate of completion issued by Fligno Software Philippines, Inc.

SOFTWARE SKILLS

Frontend: React, Next.js, TypeScript, JavaScript (ES6+), Tailwind CSS, PWA

Backend: Django REST Framework, Node.js (Express), Flask, REST API design, RBAC, JWT auth

Data & ML: Python, Pandas, Apriori algorithm, association rule mining

BaaS: Supabase (PostgreSQL, Auth, Storage, Realtime), Row Level Security (RLS)

Database: PostgreSQL, MySQL, MongoDB

DevOps: Docker, GitHub Actions, Vercel, Render, VPS, Nginx, domain & DNS, SSL/TLS

Tools: Git & GitHub, Postman, Figma, Linux, VS Code

Familiar With: Laravel, WordPress

HARDWARE & IT SKILLS

Networking: Cisco switch configuration, VLAN setup, port assignment, LAN/WAN administration, network troubleshooting

Communication Systems: PABX setup and maintenance, CCTV installation and monitoring

Endpoints & Peripherals: Workstation setup and upgrades, Epson printer installation and maintenance

Enterprise Systems: SAP, Microsoft Outlook configuration, email account setup and mailbox merging

IT Administration: Active Directory — user account management, domain join, OU organization, access provisioning, Group Policy (GPO)

EDUCATION

University of Science and Technology of Southern Philippines, Cagayan de Oro

2024 – Present

Master of Information Technology

DOST-STRAND Scholar

University of Science and Technology of Southern Philippines, Cagayan de Oro

2017-2022

BS in Information Technology

DOST-JLSS Scholar