

PROJECTS

PaDiscount: Discount Helper — [NextJS](#), [TailwindCSS](#), [ShadCN](#), [Javascript](#), [Typescript](#), [NodeJS](#), [Express](#)

- A full stack website that computes if the appropriate discounts and exemption is applied on PWDs/Seniors locally. Has built in calculator and OCR with the option to choose between PaddleOCR or AI Models.

Mazvantage: Parts Catalogue Store — [React](#), [TailwindCSS](#), [Supabase](#), [Javascript](#), [SEO](#), [Express](#), [Node JS](#)

- A catalogue website that sells car accessories and parts for Mazda vehicles. Fully developed within React, along with CRUD operations for the admin, optimized loading times, and equipped with Technical SEO practices.

Memorikey: Gamified Memorization Web Application — [NextJS](#), [TailwindCSS](#), [Javascript](#), [Typescript](#), [NodeJS](#)

- A gamified memorization web application promoting rhythmic keyboard tapping, inspired by MonkeyType.

ProMorph: Melanoma Skin Lesion Classification Model with Proportional Dilation — [Python](#), [Tensorflow](#), [ML](#), [Keras](#), [Scikit](#)

- Developed a binary classification model to distinguish malignant and benign skin lesions, aiding early and non-invasive skin cancer detection. Pioneered a morphological approach, achieving **0.8029 and 0.8988 AUC** scores on both datasets which save thousands.
- The research was **published and presented** at the International Conference on Innovation in Artificial Intelligence in Japan, the published paper can be [viewed](#).

Automated Portfolio Blog Poster using GLM4.7 — [GLM4.7](#), [AI](#), [NextJS](#), [TailwindCSS](#), [Express](#), [NodeJS](#)

- An automated blog poster that triggers every 10AM on a Monday to generate the latest tech/coding news, all autonomous with only a review panel for the admin for control purposes.

ID Parser using YOLOv8 Model and Google ML Kit for Android — [Android](#), [GoogleMLKit](#), [Roboflow](#), [Python](#), [Java](#), [Kotlin](#)

- An Android Application that preprocesses, aligns and parses local PH Government IDs, using ML Kit for the OCR and YOLOv8n model for a lightweight diagram sectioning of the ID on a picture.

Twitter/X Affiliate Analytics Dashboard — [Python](#), [OpenAI](#), [Grok](#), [Openclaw](#), [Openrouter](#), [AI](#), [Javascript](#), [NextJS](#), [Express](#), [NodeJS](#)

- A dashboard filled with competitor analysis, post suggestions, and topics, all connected to a main account to provide the user with specialized information regarding influencer activities. A single dashboard for everything an influencer might need saving **manhours**.

Twitter/X Changes Monitor — [Python](#), [Requests](#), [API](#), [Streaming](#)

- Built an automation tool that tracks real-time Twitter/X account activity (bio, profile, and tag updates) and updates via webhook, improving data responsiveness by integrating directly with the API, significantly reducing latency versus manual monitoring.

WORK EXPERIENCE

Lead Developer, Speranza Innovations – Texas, USA

Dec 2025 – Mar 2026

- Built and launched a multi-tenant SaaS platform **servicing 2+ companies and individual statewide**, improving operational efficiency by **25–40%** and reducing communication turnaround time by **30–50%**.
- Led end-to-end product engineering (backend, frontend, system architecture, and UI/UX), delivering the platform from zero to production in 3-4 months and shipping **10+ core features** for reporting, collaboration, and workflow automation.
- Architected and implemented a Google Cloud Pub/Sub + catch-all email ingestion pipeline with filtering/routing logic, automating processing of 100+ inbound messages/week and reducing manual effort by **reducing a 10-minute process to only a minute** task.

Software Developer, Lightweight Solutions – Quezon City, Commonwealth

Aug 2025 – Nov 2025

- Led the development of a full-stack web platform for a major local donation and charity organization, integrating payment gateways, monthly subscriptions, and responsive UI/UX designs using modern web technologies. From a previous manual process that takes **3-5 minutes** to complete, **now down to a 1-2 minute** completion time from user information to a convenient checkout page.
- Conceptualized and developed an AI-driven SaaS platform that enables users to create and manage custom AI assistants for various business applications. Designed autonomous agentic models to troubleshoot, re-correct, and solve with minimal manual manipulation.

Data Science Intern, Arthaland Corporation – Taguig, BGC

Feb 2024 – May 2024

- Built a data integration tool to merge datasets from multiple database systems, automating a manual process and increasing accuracy and efficiency, achieving over **87.5% daily manual time improvement** that's over **8 manhours saved** per week.

Software Developer, MinTech – Netherlands

Nov 2022 – Aug 2023

- Collaborated with a software development team to design, implement, and maintain scalable solutions, ensuring quality and reliability.
- Developed and deployed a trading bot that enabled users to track trades with real-time statistical insights, increasing time efficiency by **0.5s – 5s** which is critical in the trading scene. Integrated real-time dashboards to track statistics and gains throughout the day.

EDUCATION

University of Santo Tomas - Manila, Philippines

2020-2024

B.S. Computer Science specializing in Data Science; Consistent Dean's Lister, Cum Laude

SKILLS

Programming & Frameworks: Python, JavaScript, TypeScript, Java, Node.js, Express.js, Next.js, React, PostgreSQL, Supabase, Neon

AI & Machine Learning: TensorFlow, Scikit-learn, AI Prompt Engineering, Model Fine-Tuning, Natural Language Processing

Data Science & Analytics: Power BI, Data Visualization, Data Cleaning, Predictive Modeling, Statistical Analysis

Web & Software Development: Full-Stack Development, SaaS Development/Architecture, Agile/Scrum, Responsive Web Design