

MARCUS KENT RECIO OLIVER

COMPUTER SCIENCE

Technological Institute of the Philippines (TIP) – Manila

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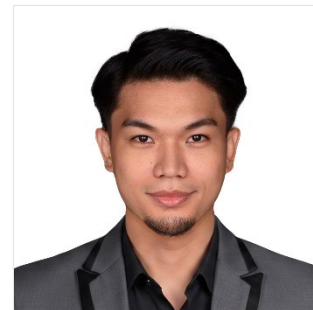
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GitHub: github.com/mematello



Computer Science graduate (Cum Laude) with production experience building backend data pipelines and REST APIs, plus independently built full-stack projects spanning AI-integrated web applications and applied NLP/information retrieval systems. Comfortable across the stack — Python and Node.js on the backend, React/Next.js on the front end. Seeking entry-level full-stack or backend engineering roles.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Java, C, SQL, HTML/CSS

Frameworks & Libraries: React, Next.js, Node.js, Flask, Tailwind CSS

Databases: MongoDB, MySQL, Firebase, PostgreSQL

Tools & Platforms: Git, GitHub, Docker, Google Cloud Platform, Figma

ML / AI: scikit-learn, TensorFlow, PyTorch, XLM-RoBERTa, NLP, Word2Vec, pgvector

WORK EXPERIENCE

Web Developer Intern – Blueshift Energy Inc. (500 hours)

Jan 2026 – Apr 2026

Python, MongoDB Atlas, REST APIs, Cron, Odoo ERP (XML-RPC), Customer.io, Telegram Bot API, Docker, GCP

- Engineered a headless Python daemon deployed on GCP Cloud Run to continuously poll 60+ distributed solar inverters (SolisCloud, Deye Cloud APIs), processing 17,000+ telemetry events daily with HMAC-SHA1 and token-based auth flows per vendor.
- Persisted high-frequency time-series telemetry to MongoDB Atlas with idempotent upserts and TTL index management, supporting downstream reporting and anomaly-detection pipelines.
- Developed daily and monthly aggregation pipelines computing Meralco-tiered billing metrics, TOU buckets, and plant-level ROI summaries — dispatching automated financial reports to clients via Customer.io.
- Architected a stateful anomaly detection engine with configurable strike thresholds to detect weak strings, CT sensor errors, and battery inefficiencies, routing hardware alerts through Telegram Bot API before customer impact.
- Implemented automated backfill workflows to reconstruct missing telemetry from vendor historical APIs post-outage, with full idempotency via compound index keys across daily and monthly summary collections.

Web Developer Intern (Work Immersion) – The Nazarene Catholic School (80 hours)

Feb 2022

HTML, CSS, JavaScript

- Built and deployed a responsive personal portfolio website with media queries for cross-device compatibility, demonstrating front-end development proficiency.

PROJECTS

ApplyFlow

Jun 2026

Next.js, Supabase, PostgreSQL, Gemini API, Vercel Cron | github.com/mematello/ApplyFlow

- Built a full-stack SaaS platform that extracts structured data from job descriptions, scores resume fit using the Gemini API, and tracks applications through a custom pipeline — architected end-to-end (Next.js frontend, API routes, PostgreSQL schema via Supabase).
- Designed automated follow-up reminders via scheduled Vercel Cron jobs and a redrawn system architecture spanning client, API layer, and AI integration.

Hybrid Information Retrieval System for Rizal's Novels (Thesis)

Apr 2026

Python, XLM-RoBERTa, NLP, Docker, pgvector | github.com/mematello/Rizal-Thematic-Exploration

- Engineered my thesis team's staged hybrid retrieval design — combining lexical and XLM-RoBERTa semantic search — into a production FastAPI/Next.js system for thematic analysis across 103 chapters of two novels.
- Built the domain-adaptive validation layer, backend pipeline, and frontend interface; evaluated system behavior across five progressive query-complexity levels, with expert validation rated "Valid" (3.00–3.24/4.00) by a Filipino literature instructor.

Taglish Spam Detection System

Jul 2025

Python, TensorFlow, PyTorch, Flask, Transformers | github.com/mematello/taglish-spam-detection

- Built a Logistic Regression + TF-IDF spam classifier as part of a 3-way model comparison with teammates (LSTM, XLM-RoBERTa) for bilingual Taglish text classification.
- Built the unified Flask app and API serving all three models side by side, and integrated the evaluation harness benchmarking them on a shared test set (best result: 98.24% accuracy, XLM-RoBERTa).

Loan Tracker Application

May 2024

Java, Java Swing, Maven, Android Studio | github.com/mematello/loan-tracking-app

- Built a desktop application managing multiple loan types with payment tracking, interest calculation, and file-based data persistence.
- Implemented custom sorting algorithms, event-driven GUI forms for loan entry and payment processing, and interactive table updates using Java Swing.

EDUCATION

Bachelor of Science in Computer Science - Technological Institute of the Philippines, Manila

Aug 2022 – Jun 2026

- Cum Laude — Final GWA: 1.58
- VPAA Lister — 1st Year 1st Sem (S.Y. 2022–2023), GWA: 1.33

Senior High School, TVL – Information and Communication Technology – The Nazarene Catholic School

2020 – 2022

- Graduated With Honors
- Finalist, Technokids ITCUP 2019 – Graphic Design Competition

LEADERSHIP AND ACTIVITIES

Assistant Manager / Operations Support – Tito J's Water Refilling Station

Jun 2023 – Jul 2023

- Managed daily store operations including order tracking, customer transactions, and financial record-keeping for tax and profit reporting.
- Coordinated staff workflows across water refilling, sealing, and delivery processes, ensuring efficient day-to-day operations.

LICENCES AND CERTIFICATION

EF SET English Certificate (C1 Advanced) — EF SET

Apr 2023

JavaScript Algorithms and Data Structures — freeCodeCamp.org

Aug 2022

Responsive Web Design — freeCodeCamp.org

Jun 2020

References available upon request