Marc Niño Christopher Ocampo

AI Engineer | RAG Systems | AI Agents | AWS Certified Solutions Architect

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SUMMARY

AI engineer and Cum Laude IT graduate who builds and runs AI systems in production: an operations agent that manages a resort's live booking ledger, a multilingual retrieval-augmented generation (RAG) assistant, and a hybrid-search civic portal guarded by 275 automated tests, three of them published as NYO case studies. AWS Certified Solutions Architect – Associate and AI Practitioner; works in Python and TypeScript.

PROFESSIONAL EXPERIENCE

Valley O'Ville Family Resort | Calatagan, Batangas *April 2026 – Present*

General Manager & AI Systems Engineer

- Built the resort's AI operations agent, growing it from an n8n + Gemini booking bot into a Hermes agent with **14 specialised skills** that runs 24/7 on Oracle Cloud; staff handle bookings, payments, rates and guest-message drafts from Telegram against a live ledger of **328 bookings**.
- Moved booking entry onto the agent: **every new booking record since September 2026** is created through it, and **all 50 field corrections** are logged with old value, new value, author and reason.
- Designed preview-first writes that show money before and after and save only on an explicit yes, with 10-minute expiring confirmations and rollback; **32 of 32** payment and **313 of 313** charge entries pass automated checks.
- Automated hiring by connecting Gmail: the agent collects applications in any format (PDF, Word, photos of paper), checks each fact against the resume, and **scored all 40 applicants** in a Google Sheets tracker.
- Launched a live guest-facing website chatbot and Facebook Page publishing through the Meta Graph API, which posts only after an explicit CONFIRM.
- Run daily operations, staffing and guest experience; digitisation helped cut check-in from **12 to 4 minutes**.

Telectronic Systems Inc. (TSI / bedoo) | Metro Manila *January 2026 – April 2026*

Product Developer / IT Intern (486 hours)

- Developed a multi-tenant Condo Management System for a TSI client from stakeholder interviews to deployment: wrote the Business Requirements Document and scope charter and presented the proposal to the CEO.
- Built a **21-table** AppSheet and Apps Script back office for billing, service requests and occupancy, plus a mobile-first React / Vercel resident portal with OAuth, magic links and **six-role** access control.
- Automated receipt uploads and payment and balance tracking through Google Drive and Apps Script sync, so residents, unit owners, managers and maintenance staff each see their own live view.
- Prototyped a DragonPay-to-AppSheet-to-Xero payment integration (REST APIs, webhooks), mapped in a data flow diagram, with an Apps Script bridge that marks invoices paid automatically.

AI PROJECTS & OPEN-SOURCE CONTRIBUTIONS

BetterCalatagan – Civic Information Portal & AI Search *October 2026 – Present*

Creator & Lead Maintainer (independent open-source project)

- Built a civic portal for a municipality of 60,420 people: **44 pages**, **25 barangay profiles** and **10 machine-readable datasets** from PSA, DILG and DPWH, including 179 infrastructure projects and 119 public services.
- Enforced source traceability with **275 Vitest / Zod tests** in CI: any unsourced, future-dated or non-reconciling record fails the build, and **838 of 838** municipal-finance identity checks pass.
- Built its AI assistant on Cloudflare Workers with hybrid retrieval (D1 FTS5 / BM25 + bge-m3 embeddings in Vectorize, reciprocal-rank fusion), a model fallback chain chosen by an evaluation set, and a numeric guard that withholds any figure not found in the sources.
- Recovered **232 documents** from the municipality's defunct website through the Internet Archive into an in-site reader, and built a MapLibre 3D barangay map that falls back to an SVG map without JavaScript.

Sappy – SapinSapin AI Knowledge Assistant *August 2026 – Present*

Creator of Sappy; Front-End Developer, SapinSapin AI public site (open-source volunteer)

- Created Sappy, the community's RAG assistant on Cloudflare Workers and AI Search; one backend answers on the website and in Discord in English, Filipino and Taglish.

- Built its knowledge pipeline: source refresh, generation and validation scripts plus **6 GitHub Actions workflows** (daily refresh, RAG health check, deploy with hashed backup and rollback), with human review before production.
- Designed the Discord community's onboarding (introductions, gated participation, Member role, permissions) and wired its administration into a Hermes workflow through Discord MCP.
- Built parts of the public site and its in-browser speech demo, with figures synced live from Hugging Face.

Hermes Agent Ecosystem – Open-Source Contributions *September 2026*
Contributor

- Found and fixed a privacy leak in the Hermes Discord Rich Presence plugin: **merged upstream** (PR #6) and shipped in v1.2.2 with credit; proposed a safer default the maintainer **adopted in v1.2.3**.
- Validated the fix with **5 new tests** (33 passing upstream), a **32-combination** privacy and status comparison with default output byte-identical, and real Discord IPC on macOS.
- Opened a Hermes core pull request (#124310) so every turn-start hook gets a matching turn-end hook on early exits, with 51 tests passing across 9 files.

AUXILIARE – Philippine Founder-Investor Platform *June 2024 – June 2026*
Research & Development Lead (three-person capstone team)

- Led a founder–investor matching platform from requirements to AWS deployment (Laravel, React, PostgreSQL) with preference-based matching, video pitches, messaging and admin identity verification.
- User acceptance testing scored **3.76 / 4.0** with founders and **3.55 / 4.0** with investors; won **Best Capstone Project** and **Best Capstone Presenter** (CICT 2026) and 2nd Best Research Paper and Poster (UBIAN LEGACY 2026).

Additional Projects *2025 – 2026*

- **ResearchArchive**: one search across **250M+ papers** from 4 APIs (arXiv, PubMed, CrossRef, OpenAlex) with parallel queries, DOI deduplication, HTTP 429 backoff and BibTeX / APA / MLA / RIS export.
- **TrabahoLens**: LLM scoring pipeline (Claude API) that rates AI exposure for **500+ occupations** mapped to Philippine labour data, shown as an interactive treemap.
- **Public APIs**: open-source registry of **60+ free public APIs** with a browser testing playground and a daily GitHub Actions availability check.
- **Clipper**: open-source (MIT) pipeline that turns long videos into captioned vertical shorts, with local Whisper transcription and LLM-ranked moments for about **1–2 US cents per video**.

TECHNICAL SKILLS

AI & LLM: RAG, hybrid retrieval (BM25 + vector), multilingual embeddings, evaluation sets, prompt engineering, LLM routing and fallbacks, AI agents (Hermes), MCP, grounding and guardrails

Programming Languages: Python, TypeScript, JavaScript, SQL, PHP

Cloud: AWS (EC2, S3, RDS, SES), Cloudflare (Workers, Workers AI, D1, Vectorize), Vercel, Oracle Cloud

Web & Data: React, Next.js, Astro, Laravel, Tailwind CSS, PostgreSQL, MySQL, SQLite FTS5

Integrations: REST, webhooks, Telegram Bot API, Meta Graph API, Gmail, Hugging Face Hub API, n8n, Google Apps Script, AppSheet

Quality & DevOps: Git, GitHub Actions CI, Docker, pytest, Vitest, Zod, regression testing

Methods: Requirements analysis, BRD and scope charters, UML and ER diagrams, data flow diagrams, Agile, user acceptance testing, technical documentation

Spoken Languages: English (professional working proficiency), Filipino (native)

EDUCATION

University of Batangas | Batangas City *June 2026*
Bachelor of Science in Information Technology | **Cum Laude** | Dean's Lister | GWA 1.54 (1.00 highest)

CERTIFICATIONS

- **AWS Certified Solutions Architect – Associate** (SAA-C03), July 2026
- **AWS Certified AI Practitioner** (AIF-C01), June 2026
- **AWS Certified Cloud Practitioner** (CLF-C02), December 2025
- **Fortinet Certified Associate in Cybersecurity**, May 2026 (with Fortinet Certified Fundamentals and NSE 1–3)
- **Training:** Anthropic AI Fluency and Claude 101; IBM Artificial Intelligence Fundamentals; Cisco Cyber Threat Management and Linux Unhatched; Google Foundations of Project Management; CompTIA IT Fundamentals+; GitHub Foundations