ADRIAN FRANCISCO

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SKILLS

- **AI & Retrieval:** Retrieval-Augmented Generation (RAG), LLMs, hybrid search (BM25, vector embeddings), reciprocal rank fusion, reranking, citation verification, evaluation
- **AI Engineering:** evaluation design (negative controls, validity gates), local inference (Ollama, GGUF), agent orchestration (subagents, MCP), context engineering, fine-tuning
- **Languages & Frameworks:** Python, Go, SQL, TypeScript, Flask, FastAPI, Gin, React, Next.js, REST APIs, server-sent events
- **Data & ML:** PostgreSQL, SQLite, scikit-learn, machine learning, SHAP, cross-validation, data leakage prevention, ETL, NumPy
- **Systems & Tools:** Docker, Git, CI/CD, Pytest, JWT, RBAC, rate limiting, sqlc, bcrypt, Linux, Qwen3.5, Gemini 2.5 Flash, GPT-4o, Microsoft Copilot Studio, OutSystems 11, Playwright, Render, Vercel

EXPERIENCE

KPMG Philippines | Technology Consulting Intern

Data, AI & Innovation | Manila | Jun 2026 – Sep 2026

- Delivered 22 enhancements across screens, workflows, and receivables dashboards on an internal finance-operations application (OutSystems 11), owning each from spec through browser verification and edge-case testing.
- Built a two-source retrieval tool in Python over OutSystems platform documentation and in-app documentation, so answers reflect both platform rules and how the application actually works.
- Researched a RAG employee-directory assistant for a 40,000-person organization in Microsoft Copilot Studio; mapped failure modes such as hallucinated contacts and stale reporting lines, and documented integration risks before rollout.

ZaneManila | Freelance Contract Engineer

Manila | Jan 2026 – Feb 2026

- Built a custom Shopify storefront end to end: API client, GCash payment flow, address validation, and error logging for a retail client.
- Turned local delivery and payment constraints into checkout behavior, resolving edge cases directly with the client before launch.

PROJECTS

NekoHon: Offline RAG Reader for EPUB | Solo Engineer

Python, Ollama, Qwen3.5 2B, nomic-embed-text, reciprocal rank fusion

- Built an offline RAG reader for eBooks: the model answers only from the loaded book, cites the exact passage, or refuses when the answer is absent; backed by 1,160+ automated tests.
- Engineered hybrid retrieval across three books of up to 1,307 passages, combining vector search, keyword search, and reciprocal rank fusion; a verification loop checks every quote and refuses unsupported answers.
- Fine-tuned a 2B Qwen3.5 quote-or-refuse model on 9,389 curated examples across six iterations; the adopted build is the app's default answerer.
- Rebuilt the evaluation harness after finding the old scorer could be passed by a dummy answer; added five negative controls and a validity gate, dropping the score on 53 held-out questions from 98.3% to an honest 83%.

Diana: Explainable Diabetes Risk Screening Platform (Thesis) | Lead Systems Engineer

Python, Go, PostgreSQL, Flask, scikit-learn, SHAP, Docker

- Built a diabetes risk screening platform for postmenopausal women, with patient, doctor, and admin interfaces and a factor-level explanation for every risk score.
- Trained models on 1,376 CDC NHANES records (2009–2023), excluding diagnostic lab values that would leak the answer; reached 0.737 AUC-ROC and caught 74.8% of true cases under held-out patient and year validation.
- Built the Go API and Python prediction service with role-based access, audit logs, and SHAP explanations; clustered at-risk patients into four metabolic phenotypes for clinicians.

Holy Redeemer School: Library Platform | Systems & Product Engineer

Go, Gin, PostgreSQL, Redis, React 18, Vite, Docker, Playwright

- Conducted on-site stakeholder research at Holy Redeemer School, interviewing librarians, administrators, and students to identify operational bottlenecks and author the system PRD.
- Translated institutional needs into a production web platform: automated manual circulation workflows with RFID/QR book tracking, fine calculation, and Redis-cached KPI dashboards, deployed live to end users.

EDUCATION

B.S. Computer Science, Mapúa Malayan Colleges Laguna

Laguna, Philippines | Aug 2022 – Nov 2026 (expected)