Simon Ocampo

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Education

B.S. in Computer Science at the University of Central Florida | GPA: 3.82 May 2027

Experience

AI Solutions Developer — Dexter Global Business Solutions Jun–Oct 2026

- Built ContractIQ, a React, TypeScript, and Supabase demo that turns agreements into structured records for legal review.
- Developed AI extraction and analysis with versioned prompts, source-citation checks, OCR support, and human approvals.
- Built 30-case synthetic evaluations and replay tooling; designed durable processing and Azure Foundry model routing.

Software Engineer — Pactemos Dec 2024–Jan 2025

- Built reusable contract templates with dynamic fields to simplify document preparation for legal operations teams.
- Standardized documentation workflows and supported internal tools for document approval and coordination.

Teaching Assistant — University of Central Florida Aug 2025–Aug 2026

- Guided students in programming labs covering recursion, graph algorithms, and data structures.
- Reviewed coding assignments for correctness and runtime efficiency, explaining improvements in accessible terms.

Projects

AI Document Assistant | Python, RAG, ChromaDB, BM25, Streamlit

- Built document question-answering with hybrid vector/keyword retrieval, cross-encoder reranking, and cited context.
- Added query expansion, context compression, and embedding caching to improve retrieval efficiency and relevance.

Bitcoin AML Detection | PyTorch, PyTorch Geometric, GraphSAGE

- Trained a graph neural network on 200K+ Bitcoin transactions to identify suspicious financial activity using network patterns.
- Addressed class imbalance with weighted loss; reported 67.2% recall and 51.0% precision on the project evaluation.

ODDyssey — Backend & Simulation Lead | 2nd Place, Waymo Sponsored Track

- Built reproducible market ranking and seven-day fleet simulations using validated public-data releases and FastAPI contracts.
- Integrated bounded Gemini explanations with evidence checks, caching, rate limits, and deterministic fallback wording.

Technical Skills

Python, SQL, PyTorch, PyTorch Geometric, Scikit-learn, Pandas, FastAPI, Pydantic, PostgreSQL, ChromaDB, BM25, LLM APIs (OpenAI, Gemini), Azure AI Foundry, RAG, model evaluation, Docker, GitHub Actions, Git