

Simon Ocampo Millan

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Education

University of Central Florida – Orlando, FL
Bachelor of Science in Computer Science

Expected Graduation: May 2027
GPA: 3.9

Skills

- **Programming Languages:** Python, Java, C, C++, JavaScript, SQL
- **Frameworks & Libraries:** PyTorch, NumPy, Pandas, Seaborn, PuLP, matplotlib, React, Node.js, Express, Flask
- **Tools & Platforms:** Git/GitHub, AWS, Docker, REST APIs, OpenAI APIs, GoHighLevel, Make, Odoo
- **Technical:** Software Development, Testing & Quality Control, Data Analysis, Workflow Automation
- **Soft:** Agile Methodologies, Technical Communication, Problem-Solving, Cross-Functional Collaboration, Project Management
- **Languages:** English (Fluent), Spanish (Native)

Professional Experience

University of Central Florida	Aug 2025 – Present
<i>Teaching Assistant</i>	
○ Guided 100+ students weekly in labs, reinforcing recursion, graph algorithms, and data structure implementation.	
○ Debugged and explained complex Java programs during office hours, improving assignment completion and exam performance.	
○ Graded 1000+ coding submissions for correctness, runtime optimization, and adherence to documentation standards.	
SimX AI	Jul 2025 – Dec 2025
<i>Founder</i>	
○ Architected scalable automation pipelines integrating OpenAI models with CRM systems at production scale.	
○ Built context-aware conversational agents using prompt chaining to reduce hallucinations and improve accuracy.	
○ Increased lead-to-appointment conversion by 25% through optimized AI-driven customer interactions.	
○ Reduced manual processing latency by 70%+ via robust data orchestration and error-handling workflows.	
Pactemos	Dec 2024 – Jan 2025
<i>Software Intern</i>	
○ Automated legal compliance by building reusable contract templates with dynamic placeholders in Odoo ERP .	
○ Standardized documentation workflows across 30+ branches , reducing processing delays and compliance errors.	
○ Supported daily operations for 100+ staff by improving reliability of internal document and approval systems.	

Projects

AML Detection with Graph Neural Networks	Feb 2026
<i>ML Engineer</i>	
○ Engineered a GraphSAGE pipeline using PyTorch Geometric to analyze 200k+ Bitcoin transactions .	
○ Achieved 67.2% recall on fraud detection by solving class imbalance via Weighted Cross-Entropy Loss .	
○ Leveraged 2-hop graph topology to identify complex structuring patterns missed by linear baselines.	
○ Validated model reliance on neighbor aggregation over raw metadata through feature importance analysis.	
KnightHaven (KNIGHTHACKS VIII)	Oct 2025
<i>Full-Stack Developer</i>	
○ Built a full-stack platform with React, Express, and SQLite to unify events, marketplace listings, and local discovery.	
○ Implemented Auth0 verification to restrict protected features to users with verified @ucf.edu accounts.	
○ Developed Flask scraper with BeautifulSoup to update campus events in real time with caching and fallback logic.	
○ Integrated Yelp Fusion API for nearby spots, enabling restaurant and service discovery with student-focused context.	
AI Document Assistant	Dec 2025
<i>ML Engineer</i>	
○ Built a production-grade RAG system enabling grounded Q&A over PDF documents up to 2000+ pages each.	
○ Implemented hybrid retrieval with dense embeddings, BM25 sparse search, and cross-encoder reranking .	
○ Added semantic chunking , alias-aware query expansion, and embedding caching to reduce latency by 35% .	
○ Deployed on Hugging Face Spaces using Streamlit with lazy model loading and secure secret management.	

Involvement

Theta Tau, Professional Engineering Fraternity	Nov 2025 – Present
○ Contributed to service initiatives including campus cleanups and volunteer drives that reinforce leadership and teamwork.	
○ Participated in networking sessions with industry professionals to explore career paths across multiple engineering disciplines.	
Tau Beta Pi, Engineering Honor Society	Nov 2024 – Present
○ Initiated into Tau Beta Pi, the nation's oldest engineering honor society, recognizing the top 12.5% of engineering students.	
○ Guided candidates through initiation requirements, mentorship events, and professional development opportunities.	