

MARCOS GALDAMEZ

AI Engineer | LLM Optimization & Workflow Automation | Tampa, FL
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SUMMARY

AI Engineer with production experience in LLM optimization and workflow automation. Ships end-to-end: built enterprise n8n automation pipelines for lead generation and outreach, drove a 20% lift in search and LLM-recommendation visibility through Generative Engine Optimization (GEO), and engineered a Python OCR retrieval system that cut document search time 60–80%. Fluent across Python, JavaScript/React, OpenAI API, RAG, and full-stack delivery.

EXPERIENCE

Apsis Solutions Inc | Tampa, FL

May 2026 – Present

AI Engineering Intern (Full-Time)

- **Increased brand visibility and recommendation frequency across ChatGPT, Claude, and Perplexity** by developing web infrastructure purpose-built for Generative Engine Optimization (GEO) and LLM retrieval.
- **Drove a 20% lift in algorithmic search visibility** by implementing advanced SEO and LLM-indexing standards, validated against live analytics performance metrics.
- **Automated lead generation, targeted cold outreach, and real-time content aggregation** by engineering and deploying multi-stage enterprise workflows in n8n across integrated third-party APIs.
- **Grew domain authority** by architecting an automated web-scraping and data-extraction pipeline that dynamically harvests industry articles and republishes them as optimized resource hubs.

BHM Healthcare | Tampa, FL

May 2026 – Sep 2026

Web Management Intern (Part-Time, concurrent)

- **Boosted Google Search optimization by 30%** across SEO, Best Practices, Accessibility, and Performance (Google PageSpeed Insights) by rebuilding multiple critical landing pages from scratch in Elementor and WordPress.
- **Cut page load times by 80%**, minimizing bounce rates and eliminating render delays, by auditing raw HTML and deconstructing PageSpeed JSON to isolate conflict-heavy plugins.
- **Lifted algorithmic AI recommendations by 10%** by leveraging ZeroRank AI to identify content gaps and implement Generative Engine Optimization (GEO) standards.
- **Accelerated marketing campaign efficiency** under the direct guidance of the Marketing Director by translating raw Google Search Console data into immediate website performance overhauls.

USF Health Byrd Alzheimer's Institute | Tampa, FL

Aug 2024 – May 2026

Administrative Assistant — Automation & Data Systems

- **Reduced document retrieval time by an estimated 60–80% for staff** by engineering a Python OCR system (pytesseract/pdfplumber) that searches typed and handwritten PDF and DOCX archives by keyword and returns the exact file path and page number.
- **Standardized storage and eliminated duplicate searches** by adding auto-classification that groups documents into subfolders by detected title/heading.
- **Improved cross-team access and compliance readiness** by leading a cleanup and reorganization of legacy records spanning service reports, legal contracts, research grants, and billing.
- **Reduced time-to-document for high-priority requests** by partnering with the Assistant Director and lab staff to prioritize search terms across funding, legal, and billing workflows.
- **Made the system self-sustaining after handoff** by documenting setup and usage and training staff on a repeatable workflow bridging physical and digital archives.

Avizorca | San Pedro Sula, Honduras

Nov 2025 – Jan 2026

Software Engineering Intern

- **Boosted production throughput by 22% and cut driver logging time** by engineering a React vehicle service acceptance form managing complex state across checkbox arrays, nested radio-button inspection objects, and ISO-timestamped payloads, POSTing serialized JSON to a Google Apps Script endpoint to auto-populate Google Sheets.
- **Standardized the GPS device installation intake workflow for field technicians** by implementing a 12-item inspection checklist with index-keyed radio state, multi-select service-type checkboxes, and full form reset on successful async submission.

Nice View Window Cleaning LLC | Lafayette, CO

Aug 2025 – Nov 2025

Software Engineering Intern

- **Contributed to a 10% increase in inbound job requests** by building a React lead-conversion form with controlled components, field-level validation, and dynamic error state that constructs a prefilled mailto deep link routing structured quote requests straight to the client inbox.

- **Reduced inbound service-area inquiries** by integrating Leaflet.js with lazy initialization via IntersectionObserver and dynamic imports, rendering 8 geocoded markers on an OpenStreetMap tile layer with auto-fit bounds.
- **Surfaced live social proof and maintained consistent five-star rating visibility** by consuming a Netlify serverless function proxying the Google Places API to render customer reviews with star ratings, author photos, and relative timestamps.

PROJECTS

AI-Powered RAG Chatbot | Python, OpenAI API, Embeddings, Vector Search

- **Delivered accurate, source-grounded answers over a custom knowledge base** by implementing chunking, embedding, and vector similarity search to retrieve relevant context before generation (RAG).
- **Maintained coherent multi-turn conversations** through system-prompt engineering and conversation-history management against the OpenAI API.

Personal Portfolio Website | React, Firebase, GitHub REST API | marcosgaldamezcruz.com

- **Enabled scoped, real-time visitor-to-admin messaging** by engineering a chat system on Firebase Authentication (email/password and Google OAuth) and Firestore, with auth-state-based route protection, live updates via onSnapshot, and role-differentiated rendering.
- **Eliminated manual portfolio updates** by integrating the GitHub REST API to populate 6 project cards with live repository data including language, last-commit date, and activity status.
- **Built a custom object-oriented animation class in vanilla JavaScript** using requestAnimationFrame for a per-letter binary scramble reveal, with configurable timing, HTML-aware parsing, and CSS color transitions.

TECHNICAL SKILLS

AI Engineering: OpenAI API, RAG, Embeddings, Vector Databases, LangChain, Hugging Face, Prompt Engineering (Zero-Shot / One-Shot), System Prompts, Hyperparameter Tuning, NLP, Generative Engine Optimization (GEO), LLM Indexing

Languages: Python, JavaScript, TypeScript, SQL, PHP, HTML, CSS

Frameworks & Libraries: React, Node.js, Express.js, Tailwind CSS, Bootstrap, Jest, Firebase SDK, D3.js, Three.js, Leaflet.js, Axios, jQuery, SASS

Automation & Tools: n8n, Google Apps Script, Google Sheets API, Docker, Git/GitHub, Netlify Serverless Functions, Webpack, Azure Data Studio, Oracle, Figma, WordPress/Elementor, Google Search Console, ZeroRank AI

Core Competencies: Full-Stack Development, REST API Integration, Web Scraping & Data Extraction, OCR (pytesseract, pdfplumber), Agile Workflows, Technical Documentation, UI/UX Design

EDUCATION

University of South Florida Tampa, FL	Aug 2024 – May 2026
<i>B.S. Information Science — Web Development Technology</i>	
Hillsborough Community College Tampa, FL	Jan 2022 – May 2024
<i>Associate in Arts</i>	

CERTIFICATIONS

DeepLearning.AI — Prompt Engineering for Developers | Codecademy — Front-End Developer | DataCamp — R Programming