

# Carlos E. Martinez

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## Summary

Software Developer with a B.S. in Computer Science and 2.5 years of hands-on experience designing, developing, and shipping scalable backend systems, automation pipelines, and AI-integrated web applications. Proficient in Python, Go, and SQL, with practical experience integrating LLM APIs (Claude, OpenAI) into production workflows. Bilingual (English/Spanish) with a strong foundation in operational workflows, cross-functional collaboration, and delivering solutions that drive measurable business impact.

## Skills

<b>Languages</b>	Python, Go, C++, Java
<b>Technologies</b>	SQL, PostgreSQL, Git, Docker, Selenium, Stripe, Streamlit, REST APIs, SFTP
<b>AI &amp; LLM</b>	OpenAI API, Claude API, Prompt Engineering, LLM Integration, RAG concepts, Claude Code, OpenAI Codex
<b>Infrastructure</b>	Docker (containerization), Cloudflare, CI/CD workflows
<b>Concepts</b>	Scalable System Design, Backend Development, Data Pipelines, Process Automation, Unit & Integration Testing

## Experience

### Software Developer

Jan 2024 – Present

*Microimaging Source Inc.*

- Architected an extensible, inheritance-based document ingestion framework across multiple government counties — local-filesystem, SFTP, and Selenium delivery modes, fault-tolerant batch processing, duplicate-tracking state, and multi-format image normalization (JPEG, PNG, TIFF, PDF); **cut manual processing time by 90%**, processing **hundreds of records per run** with no data loss over two years in production
- Designed and shipped Python and SQL analytics pipelines for business clients, **reducing reporting time by 40%**; optimized SQL queries on large datasets achieving sub-second response times
- Built high-performance backend services in Go to improve reliability, scalability, and throughput; integrated OpenAI and Claude APIs into development workflows to accelerate debugging, testing, and feature delivery
- Established unit and integration test suites, raising code coverage and preventing regressions in production

### Academic Tutor

Aug 2019 – Aug 2023

*Indian River State College*

- Provided academic support in mathematics and computer science subjects to college students while simultaneously completing an A.S. degree and later a B.S. in Computer Science; maintained high student satisfaction through clear communication and adaptive instruction

### Logistics Coordinator

Jul 2021 – Aug 2022

*NitroGolf*

- Managed end-to-end shipping operations, vendor coordination, and freight logistics — developing a systematic approach to tracking, handoffs, and process reliability that directly informed later work in software automation and pipeline design

## Projects

### ZaiOT — Independent SaaS Product

*Python, Streamlit, Stripe, Cloudflare*

[zaiotcalculator.streamlit.app](https://zaiotcalculator.streamlit.app)

- Independently designed, built, and deployed a **monetized** SaaS web app with Stripe payments, gated access control, automated report generation, and bilingual (English/Spanish) support — serving real paying users with no unplanned downtime

### SCORM Package Validator

*Python, Streamlit*

*In Progress*

- Building a web-based SCORM 1.2/2004 validator that parses `imsmanifest.xml`, checks spec compliance, validates file references, and surfaces errors and warnings — demonstrating applied knowledge of eLearning standards

### Client Analytics Service

*Python, SQL, Go*

- Designed a scalable backend to parse document workflows and surface actionable business insights; optimized SQL queries handling large document sets with **sub-second response times**

## Education

### B.S. Computer Science, *Cum Laude*

May 2022 – Dec 2024

University of Florida Online

### A.A. Engineering

Jun 2019 – Jun 2022

Indian River State College

**Languages:** English (Native) | Spanish (Native)