

Leonel Guerrero

Software Engineer · AI-Integrated Systems · Agentic Workflows

📍 Dallas, TX 📞 +1 (945) 338-0177 ✉️ leonelisaacguerrero@gmail.com
🌐 [linkedin.com/in/leogcode](https://www.linkedin.com/in/leogcode) 🏠 github.com/leogcode 🌐 leonelguerrero.com

Professional Summary

Software Engineer with 5+ years of experience building production full-stack systems, now specializing in AI-integrated applications and agentic workflows. Proven track record designing scalable APIs, real-time platforms, and cross-platform mobile applications. Experienced in architecting systems with LLM orchestration, agent-driven development pipelines, and AI-powered tooling. Bilingual (English/Spanish) – authorized to work in the US (no sponsorship needed).

Technical Skills

AI & LLM:	LangChain, LangGraph, RAG Pipelines, Prompt Engineering, Context Engineering, Vector Databases, Agent Orchestration, Multi-Agent Systems, MCP (Model Context Protocol), Structured Outputs, Function Calling
Languages:	Python, TypeScript, JavaScript, SQL, Java, HTML5, CSS3
Frontend:	React, Next.js, React Native, Tailwind CSS, Zustand, Streaming UI
Backend:	Node.js, FastAPI, Spring Framework, REST APIs, GraphQL, WebSockets
Data & DBs:	PostgreSQL, PGVector, MongoDB, Redis, Drizzle ORM, Amazon S3, Pinecone
DevOps & Cloud:	Docker, CI/CD, GitHub Actions, AWS, Vercel, Linux, Nginx
Observability:	OpenTelemetry, Grafana, Grafana Alloy, Loki, Prometheus, Tempo, Alertmanager, Sentry, PostHog
Tools & Testing:	Git, Playwright, Vitest, ESLint, Zod Schema Validation

Professional Experience

Acid Tango

Full Stack Engineer – AI-Integrated Systems

April 2025 – Present

Remote

- Architect and develop AI-ready full-stack applications with Next.js, TypeScript, and PostgreSQL, designing structured data pipelines compatible with LLM ingestion and retrieval-augmented generation.
- Implement real-time streaming interfaces and API layers optimized for AI inference services, structured output parsing with Zod schemas, and agent-driven workflow integration.
- Build production monitoring and observability pipelines using Sentry and PostHog, tracking system performance metrics applicable to AI service latency and reliability monitoring.
- Design containerized microservice architectures with Docker for reproducible deployment of AI-backed services and scalable application infrastructure.

tiigre App

Full Stack Engineer & Mobile Developer

January 2024 – April 2025

Caracas, Venezuela

- Designed and developed cross-platform mobile applications for Android and iOS using React Native, implementing responsive interfaces with structured input/output validation patterns used in AI function calling.
- Built full-stack web applications integrating frontend frameworks with backend APIs, delivering scalable solutions processing thousands of daily user interactions with sub-second response times.
- Collaborated with cross-functional teams to translate business requirements into technical specifications, applying the same decomposition methodology used in agentic task orchestration.
- Implemented end-to-end testing with Playwright and schema-driven validation with Zod, establishing automated evaluation pipelines applicable to AI system reliability testing.

Modu, LLC

Software Engineer

January 2022 – December 2023

Caracas, Venezuela

- Developed production applications across the full stack using React, Node.js, and PostgreSQL, building the API design and data modeling expertise critical for AI service architectures.
- Built a cross-platform mobile application with React Native, enhancing product accessibility and demonstrating expertise in multi-platform deployment strategies used for AI-powered apps.
- Led Agile development practices across cross-functional teams, managing iterative delivery cycles and sprint-based workflows aligned with rapid AI prototyping methodologies.
- Mastered diverse technology stacks including HTML, CSS, JavaScript, React, and Node.js, building the polyglot engineering foundation required for modern AI system integration.

Self-Employed

Freelance Software Developer

May 2021 – April 2022

Caracas, Venezuela

- Delivered custom web applications for multiple clients across diverse industries, developing tailored solutions with adaptive technology selection – the same approach used in designing AI agent tool ecosystems.
- Resolved complex technical challenges including debugging and optimizing codebases, delivering innovative solutions that exceeded client expectations and built systematic problem-solving skills essential for LLM debugging and prompt optimization.
- Demonstrated proficiency across multiple programming languages and frameworks, adapting to project-specific requirements with rapid technology adoption.

HLC Electronic

Computer Technician

September 2018 – February 2021

Caracas, Venezuela

- Troubleshoot hardware and software issues across desktop, laptop, and peripheral systems, developing deep systems-level understanding of compute infrastructure underlying AI workloads.
- Installed, configured, and maintained operating systems (Windows, macOS, Linux) and software applications, building the Linux administration and environment management skills used in AI model deployment.

Education

Universidad Simón Bolívar

Bachelor of Engineering – Computer Engineering

September 2018 – December 2024

Caracas, Venezuela

- Relevant coursework: Algorithms, Data Structures, Distributed Systems, Databases, Software Engineering, Statistics

Platzi

Certificate – Computer Science

February 2019

Publications

Energy Optimization through a Multidimensional Distributed Scheduling Approach – Research on distributed computing optimization, applicable to multi-agent workload distribution and LLM inference scheduling.

An Evaluation of the Impact of End-to-End Query Optimization Strategies on Energy Consumption – Research on query optimization with direct applications to vector database retrieval and RAG pipeline efficiency.

Certifications

- Curso de Fundamentos de Bases de Datos
- Curso Profesional de Git y GitHub
- Curso de Django

- Curso de Fundamentos de .NET
- Curso de Fundamentos de Electricidad y Electrónica

Additional

Languages: English (Fluent), Spanish (Native)

Work Authorization: Authorized to work in the US (valid work permit – no sponsorship needed)

Interests: Open-source AI tooling, Multi-agent system design, LLM-driven developer productivity