

MIGUEL ATENCIO VARGAS

Backend & Platform Engineer · Applied AI

La Paz, Bolivia · atencio947@gmail.com · +591 67113903

linkedin.com/in/miguel-atencio-564597209 · github.com/miguel-atencio-vargas · miguel-atencio-vargas.github.io

PROFESSIONAL SUMMARY

Backend engineer with 4+ years spanning backend development, platform operations, and applied AI. Designs event-driven systems in Node.js/TypeScript (NestJS, HapiJS), has operated infrastructure supporting 400+ business locations, and builds LLM-powered systems including RAG pipelines, multi-agent architectures, and LLM integrations (Claude, OpenRouter, MCP). Improved legacy platform performance by 30% and backend efficiency by 18% through caching, query optimization, and search-engine migration. Focused on eliminating repetitive work through automation and on architecture decisions justified by explicit trade-offs.

CORE SKILLS

Languages & Runtimes: TypeScript, JavaScript, Node.js, Python, SQL

Backend & Architecture: NestJS, HapiJS, REST APIs, RPC, event-driven architecture, microservices, asynchronous task processing, systems design

AI Engineering: OpenRouter API, Model Context Protocol (MCP), RAG pipelines, vector search (Qdrant), multi-agent systems, LLM-based automation, Claude Code

Data & Messaging: PostgreSQL, MongoDB, Redis, Elasticsearch, OpenSearch, RabbitMQ, MQTT

Infrastructure & Operations: Docker, Docker Compose, AWS, Proxmox, Windows Server, Linux, networking (DNS, DHCP, VPN), New Relic, incident response

Automation & Testing: Playwright, workflow automation, automated auditing

Practices: automation, observability, technical documentation, architecture decision records, agile delivery

Soft Skills: problem solving, results orientation, teamwork & collaboration

PROFESSIONAL EXPERIENCE

Professional Services Engineer — CodeRoad (client: Cox Enterprises)

Aug 2024 – Present · Remote

- Build and maintain dealer-facing web platforms for automotive brands using CMS Composer, delivering search-optimized pages, campaigns, and inventory experiences in collaboration with SEO specialists.
- Developed internal audit tooling to detect configuration and SEO-compliance issues across dealer sites, replacing manual page-by-page review with repeatable automated checks.
- Automated recurring operational workflows with Playwright, reducing manual effort and turnaround time for site updates and QA.

Platform Support Engineer — CCW

Sep 2023 – Aug 2024 · Remote

- Kept 400+ US veterinary clinics operational as part of the infrastructure support team, maintaining Windows Server environments running Avimark practice-management software.
- Administered virtualized infrastructure on Proxmox, resolving application and domain-controller incidents with rapid response in business-critical situations.
- Managed networking (DNS, DHCP, IPv4, VPN, RDP) and performed preventive server maintenance to minimize clinic downtime.

Backend Developer — Applaudo Studios (client: LUUK Holdings)

Jan 2022 – Sep 2023 · Remote

- Improved backend efficiency by 18% and legacy-platform performance by 30% by refactoring code, optimizing MongoDB queries, and implementing Redis caching.
- Migrated the platform's search layer from Elasticsearch to OpenSearch, improving reliability and scalability.
- Built and maintained event-driven services with HapiJS, RabbitMQ, and RPC on AWS; instrumented monitoring with New Relic and push notifications with Google FCM.
- Worked on an agile team delivering against project deadlines on a legacy codebase.

SELECTED PROJECTS

Trading Research Agent — RAG + LLM Pattern Detection

Autonomous research agent that detects chart patterns using LLM reasoning grounded in technical-analysis frameworks (Murphy, Smart Money Concepts). Built a RAG pipeline over Qdrant vector search with Claude API integration. *TypeScript, Python, Qdrant, Claude API, Docker.*

Del Iver y La Paz — Order Orchestration Platform

Event-driven order orchestration backend for a local delivery operation, modeling order lifecycle as asynchronous events. *NestJS, TypeScript, message queues, Docker.*

SmartLog — AI-Correlated Log Intelligence (AI hackathon, CodeRoad)

Contributed to SmartLog, built during CodeRoad's internal AI hackathon: a tool that correlates logs using AI to accelerate incident diagnosis. *Python.*

EDUCATION

B.S. Systems Engineering — Universidad Loyola de Bolivia, La Paz · Dec 2021

CERTIFICATIONS

- Cloud Deployment Bootcamp — CodeRoad · Dec 2025 (36-hour remote program)
- Anthropic Certified: Developer – Foundations (*in progress, expected 2026*)

LANGUAGES

- English — C1 Advanced (*EF SET certified: cert.efset.org/en/Dynk6M*)
- Spanish — Native