



Juan Manuel Ahumada Vázquez

AWS Solutions Architect / Senior DevOps Engineer

TEL +52 867 753 7160

MAIL juan.ahumada94@gmail.com

IN linkedin.com/in/jahumada94

GH github.com/jmav94

LOC Nuevo Laredo, Tamps., MX

PROFILE

01

Computer Systems Engineer with over **10 years** of IT experience, specialized in designing, deploying and operating AWS cloud architectures under the **Well-Architected Framework**. I lead the infrastructure and full lifecycle of a fleet of enterprise applications running 24/7 for a cross-border trucking company (150 employees, 370 tractor-trucks, 500 trailers). My practice combines cloud architecture, DevOps automation, security and cost optimization, complemented by university teaching in advanced programming and integrating AI agents to scale operations.

TECHNICAL STACK

02

CLOUD & INFRA

- AWS
- ECS / Fargate
- RDS
- S3
- Lambda
- CloudFront
- Route 53
- IAM
- ACM
- Secrets Manager
- Terraform
- CloudFormation
- CDK

CONTAINERS & CI/CD

- Docker
- GitHub Actions
- multi-repo workflows
- blue-green

LANGUAGES

- TypeScript
- Node.js
- Python
- Go
- Bash
- Java / Spring Boot

DATA

- PostgreSQL
- pgvector
- MySQL
- DMS / CDC
- schema & indexing

OBSERVABILITY

- CloudWatch
- Datadog
- Grafana
- Sentry

AI & AUTOMATION

- Claude Code
- AI agents
- PM automation
- code review
- audits

EXPERIENCE

03

RAJO Transportes · Senior DevOps Engineer & AWS Solutions Architect

Jan 2025 – Present · Nuevo Laredo, MX

Design and operation of the AWS cloud architecture for a fleet of **6+ enterprise applications** supporting a cross-border trucking company with 150 employees, 370 tractor-trucks and 500 trailers in 24/7 operation. End-to-end lifecycle ownership: architecture, IaC, CI/CD, security, observability, cost optimization and production reliability.

KEY ACHIEVEMENTS

- COST** Manage multiple AWS environments with monthly budgets between **\$350** and **\$3,400 USD**; achieved **50–75%** cost reduction through right-sizing, compute optimization (Fargate) and storage lifecycle policies.
- RELIABILITY** Multi-repo CI/CD pipelines with **zero-downtime deployments and automated rollback**; designed **offline-first and synchronization** capabilities for mission-critical field operations under intermittent connectivity.
- SECURITY** Least-privilege IAM, end-to-end encryption, centralized multi-domain SSL/TLS, per-environment CORS, and secret management via GitHub Secrets + Docker + pipelines. Migrated production apps from direct prod-DB access to a safer staging-readonly model, eliminating accidental writes on real data (**28K+** inspections, **~500** operators).
- AUTOMATION** Integrated AI agents (Claude Code) into both operations and the development cycle: **recurring audit system** across the entire infrastructure (cost, security, reliability, database, hygiene), spec generation, code review and task breakdown — reduces manual review cycles and accelerates feature delivery.

Designed, operated and maintained AWS infrastructure and SaaS products for a portfolio of **5+ clients across multiple industries** (hospitality POS multi-branch, e-commerce, logistics, real estate, fitness, restaurants). End-to-end ownership: architecture, IaC, CI/CD, database performance, incident response and observability.

KEY ACHIEVEMENTS

- **ECS MIGRATION** Migrated 3 production microservices (Java/Spring Boot) and 4 batch processes from legacy VPS to ECS Fargate with **blue-green zero-downtime** deployments.
- **COST** **~30%** reduction (**~\$794 USD/mo**) in AWS production infrastructure through compute right-sizing (EC2/ECS), RDS IOPS tuning, ECR/CloudWatch Logs lifecycle policies and controlled shutdown of non-production environments.
- **DB PERFORMANCE** Resolved critical production deadlock on a **4.2M+ row** table by designing a composite index (full-scan reduced from **4.2M → 34 rows**); **85%** reduction in connection leaks (**137/h → 21/h**) via Hikari pool tuning and transactional handling across 55 services.
- **REPLICATION** Designed an **AWS DMS** replication pipeline with **22 tables** in daily CDC for reporting and analytics, with validated full-reload strategy and preserved indexes.
- **OBSERVABILITY** Implemented **15+** CloudWatch Alarms with category-based triage runbooks (memory pressure vs. connection saturation); RCA and resolution of major incidents including a **7h** HikariPool exhaustion outage.
- **STACK BREADTH** Delivered solutions on Java/Spring Boot, Next.js, LoopBack 4, MySQL/RDS, with NetSuite OAuth, Stripe and PayPal integrations.

TecNM Campus Nuevo Laredo · Faculty Member

2019 – Present · Nuevo Laredo, MX

- Teach advanced programming courses at the undergraduate level in Computer Systems Engineering.
- Mentor students on professional residency projects and software development.

EDUCATION

04

2013 – 2018

TecNM Campus Nuevo Laredo

B.Sc. Computer Systems Engineering

Honorable mention for professional residency project; represented the National Technological Institute of Mexico — Nuevo Laredo campus — at a national technological innovation competition.

2010 – 2013

CBTIS #137

IT Technician

LANGUAGES

06

Spanish

Native

English

Professional

CERTIFICATIONS

05

AWS Certified Solutions Architect — Associate **SAA-C03** · **in preparation**

Exam targeted 2026.

STRENGTHS

07

Technical leadership · Mentoring · Effective communication · Problem solving · Teamwork · Project management