

# **Carlos Alvarado Hernández — Senior Full-Stack Developer | Tech Lead | Cloud Architect (AWS) | Applied AI**

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## **EXECUTIVE SUMMARY**

Senior Full-Stack Developer and Tech Lead with strong experience leading development, architecture, technical direction, and modernization of critical enterprise platforms across multi-stack environments: Java, Node.js, Python, React, Angular, and Next.js.

Specialized in AWS (Lambda, API Gateway, SQS, SES, DynamoDB, RDS), scalable architectures, modern backend patterns, CI/CD automation, code quality, and system reliability.

Extensive applied AI experience: RAG pipelines, chatbots, autonomous agents, machine learning workflows, large-scale classification, audio-to-text pipelines and generative tools.

As CTO of DNVR.CO, I lead end-to-end architecture, cloud infrastructure, engineering standards, developer guidance, and scalable solutions for clients.

## **KEY PROFESSIONAL EXPERIENCE**

### **TCS — Senior Full-Stack Developer / Lead (2023–Present)**

- Technical lead for a portfolio of critical applications in a multinational insurance company.
- Designed and implemented new high-impact features using React, Angular, Next.js, Node.js, Spring Boot, and Python.
- Ownership of microservices, incident resolution, performance optimization and production troubleshooting.
- AWS-based architecture following best practices for availability, failover and cost-efficiency.
- Mentorship of developers, code quality improvements and technical standards enforcement.

### **DNVR.CO — CTO & Tech Lead (2024–Present)**

- Responsible for architecture, infrastructure, technical roadmap and cloud standards.
- Built a scalable mailing system using AWS SES + SQS + Lambda + Step Functions with full traceability.
- Developed chatbots, RAG systems, autonomous agents and AI-based automation tools.
- Implemented machine learning models for prediction, classification and workflow automation.
- Technical leadership across multi-stack client projects.

### **Thoughtworks — Consultant Developer (2022–2023)**

- Web and mobile development with TDD, clean code and agile delivery practices.
- Participation in architectural decisions and technical design discussions.
- Projects included Azure, Kubernetes, Next.js, NestJS and MongoDB.

### **Aligare — Full-Stack Developer (2021–2022)**

- React + Redux front-end; Node.js + MongoDB microservices.
- Spring Boot, AWS Lambdas and cloud integration in corporate projects.

### **Chilean Army — Telecommunications Platoon Commander (2018–2019)**

Leadership, critical communications, high-responsibility operations and team coordination.

## **TECHNICAL COMPETENCIES**

**Languages:** Java, Python, Node.js, TypeScript, SQL, PL/SQL.

**Frontend:** React, Next.js, Angular, Redux.

**Backend:** Spring Boot, Express, NestJS, Flask.

**AWS Cloud:** Lambda, API Gateway, SQS, SNS, SES, S3, RDS, DynamoDB, EC2, IAM.

**Databases:** PostgreSQL, MySQL, Oracle, MongoDB, DynamoDB.

**DevOps:** CI/CD, GitHub Actions, Docker, Kubernetes (basic), observability.

**AI/ML:** LLMs, RAG, embeddings, ML pipelines, classifiers, neural networks.

## EDUCATION

Computer Engineering (Data Science) — DuocUC (2020–2023)

BA in Military Sciences — Escuela Militar (2018)

## LANGUAGES

Spanish (Native) — English (Intermediate-Advanced) — Mapuzungun (Basic)