

Leonardo Noriega

FULL-STACK DEVELOPER · TECH LEAD · DEVOPS

Full-Stack Backend Engineer and Technical Lead with 2+ years hands-on professional experience leading a 5 person development team. Specialized in high-performance backend systems (Java/Spring Boot, Python/Django, Go), industrial IoT data pipelines (MQTT, Modbus TCP, ClickHouse), and end-to end CI/CD infrastructure (GitLab CE, Jenkins, Docker, SonarQube) on self-managed (Proxmox) and Cloud (AWS) environments. Proven track record covering the full software lifecycle: requirements gathering, system architecture, database modeling, Full-Stack development and production deployment.

EXPERIENCE

A3E Ingenieros Especialistas en Energía Eléctrica

Full-Stack Developer → Acting Technical Lead | May 2024 – Present

Leadership & Architecture

- Lead a 5-developer team: requirements gathering with internal and external clients, system architecture definition, database modeling, and task distribution with agile tracking (SCRUM/OpenProject).
- Primary technical point of contact for critical projects: from discovery to production deployment, enforcing code quality via SonarQube and PR reviews.

Industrial IoT & Monitoring System (Project Lead)

- Architected and led development of an Integral Monitoring System integrating heterogeneous devices: power meters, protective relays, and environmental sensors (DHT11, Vaisala, etc.).
- Implemented multi-protocol data collector in Go: Modbus TCP (RS-485), TCP/RF, Serial, and MQTT for real-time sensor ingestion
- Designed the data pipeline, raw reading → MongoDB (staging) → Apache Kafka (streaming) → ClickHouse (high-performance columnar storage) for time-series analytics.
- Deployed the full stack on AWS EC2 with containerized services and NGINX as reverse proxy

DevOps & Infrastructure

- Designed and built the company's DevOps toolchain from scratch: GitLab CE, Jenkins, SonarQube, and OpenProject containerized with Docker/Portainer on Proxmox VMs, with versioned images, persistent volumes, and encrypted environment variables.
- Administer and maintain the team's Linux servers; manage CI/CD pipelines via GitLab CI/CD and Jenkins; orchestrate services with Docker Compose.
- Deployed AWS infrastructure (EC2, S3, Elastic Beanstalk) for the corporate website and external-facing services, with NGINX as reverse proxy.

Backend & Data Integration

- Designed and developed an Energy Management System (ISO 50001) with statistical baseline calculation (R^2) on the backend.
- Enterprise backend with Java/Spring Boot: JWT authentication, sensitive data encryption, SMTP email integration, and RESTful APIs documented with Swagger.
- Additional development with PHP/Symfony and PHP/Laravel depending on project requirements.

Full-Stack & Frontend

- Full-Stack development of a Procurement Management System (Spring Boot + Next.js/ReactJS + MySQL), responsible for DB design, business logic, containerization, and deployment.
- Web interfaces with React.js, Next.js, and Vite, using Tailwind CSS as the primary design system.

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HABILIDADES TÉCNICAS

Backend

Go · Java (Spring Boot) · Python (Django) · Node.js (Express) · PHP (Symfony, Laravel)

IoT y Protocols

MQTT · Modbus TCP · TCP/RF · Serial · Industrial sensor integration

DevOps / Infra

Docker · Docker Compose · GitLab CI/CD · Jenkins · SonarQube · Portainer · Proxmox · NGINX

Cloud & Scripting

AWS (EC2, S3, Elastic Beanstalk) · Linux · Bash · Zsh · Python Scripts · Lua

Streaming / Data

Apache Kafka · ClickHouse · MongoDB · PostgreSQL · MySQL

Frontend

React.js · Next.js · Vite · Tailwind CSS · Bootstrap · React Native · Kotlin

Methodologies

SCRUM · Tech Leadership · Requirements Gathering · Software Architecture · PMBOK

LANGUAGES

Spanish - Native

English - Advanced (TOEFL 547 – C1)

French - Basic

EDUCATION

B.Eng. in Software Development and Management

Universidad Tecnológica del Estado de Morelos (UTEZ) | (Sept. 2024 - Aug. 2026)

Higher Technician in Multiplatform Software Development

Universidad Tecnológica del Estado de Morelos (UTEZ) | (Sept. 2022 - Aug. 2024)

Certifications

CCNAv7 (Networking) · Android Dev v12 · Platzi Morelos.