

Luis Jose Espinoza Alvarado

Tech Leader | Electronic Engineer & Bachelor's Degree in Educational Technology | 10+ years in Full Stack (Python, PHP, Java) & Cloud
| Expert in Open Source Environments | Technical Mentoring and IT Education

✉ ing.espinozalj@gmail.com ☎ [+573138807460](tel:+573138807460) 📍 Bogotá, Bogota, Colombia 🌐 <https://alvaloper.com>

Summary

Technology Leader & Electronics Engineer with 10+ years of experience driving digital transformation through high-performance architectures. Expert in Full Stack Development and Cloud Infrastructure, with a specialized focus on Generative AI implementation, Cybersecurity, and Scalable Systems (GCP/AWS/Kubernetes).

As a B.Ed. in Educational Technology, I bridge the gap between complex engineering and human talent development. I don't just deploy code; I build technical ecosystems by designing mentorship programs and agile workflows (Scrum) that elevate team capabilities.

Core Expertise:

Engineering & AI: Advanced proficiency in Python, Java, and PHP, specializing in Prompt Engineering and Responsible AI integration.

Infrastructure & Security: Expert Linux SysAdmin (Debian) with verified mastery in Cloud Computing (Google Cloud/AWS) and Network Security.

Strategic Leadership: Proven track record leading digital innovation, optimizing resources through Open Source solutions, and ensuring high availability in mission-critical environments.

Professional credentials and technical certifications from **Google, AWS, Cisco, and IBM** are verified and available on my LinkedIn and Credly profiles.

Profiles

🔗 **Credly**
[users/luis-jose-espinoza-alvarado](#)

🌐 **LinkedIn**
[in/luis-jose-espinoza-alvarado/](#)

🔗 **Github**
[alvaloper](#)

Education

National University of Colombia Full Stack Web Development Program
Computing Bogotá, Bogota, Colombia • April 2021 – December 2021

- **Core Stack:** Advanced development with **Java (Spring Boot)**, **Python (Django)**, and **JavaScript (Vue.js)**.
- **Architecture & DevOps:** Managed **REST/GraphQL APIs**, **PostgreSQL/MongoDB** databases, and containerization with **Docker/Git**.

Santiago Mariño Polytechnic Bachelor of Science (B.S.)
Electronic Engineering Mérida, Venezuela • 2014 – 2019

Libertador Experimental Pedagogical University Bachelor of Education (B.Ed.)
Computing Mérida, Venezuela • 2011 – 2014

Dr. Cristóbal Mendoza University Institute of Technology Associate Degree
Computing Mérida, Venezuela • 2008 - 2011

Experience

University of the Andes Remote
Senior Software Engineer & Systems Architect July 2023 – Present

- **Direct and mentor cross-functional teams** of software engineers and IT professionals, establishing strategic priorities and agile development workflows.
- **Architect and deploy scalable enterprise systems** using **PHP** and **Java**, ensuring high availability and seamless integration through advanced version control (**Git**).
- **Engineer and manage high-security Open-Source server environments** (Debian/Linux), overseeing the critical infrastructure that powers faculty information systems.
- **Implement proactive cybersecurity protocols**, monitoring web systems and servers to mitigate malicious attacks through IP/User blacklisting and unauthorized access prevention.
- **Orchestrate web domain management and infrastructure scaling** for university-wide projects, ensuring 99.9% uptime and optimal system health.
-

- **Lead Agile (Scrum) technical teams** through full-cycle development, from code documentation and testing to the resolution of complex architectural bugs.
- **Foster a collaborative high-performance culture**, building strong stakeholder relationships and aligning technical execution with institutional objectives.

Alvaloper (Freelance)

Senior Software Consultant & Independent Contractor

Remote

February 2020 – Present

- **Increased corporate productivity by 30%** by architecting scalable Full Stack systems and high-availability cloud infrastructures.
- **Led end-to-end development lifecycles**, integrating complex third-party APIs and external services to optimize critical business workflows.
- **Acted as Lead Technical Mentor**, conducting code reviews and implementing Clean Code standards to ensure long-term system maintainability.
- **Orchestrated Agile (Scrum) delivery cycles**, streamlining deployments through robust **Git** version control and **CI/CD** automation.
- **Engineered secure, high-performance web platforms**, providing continuous monitoring and data-driven optimizations for diverse industry clients.

IUT Antonio José de Sucre

Part-time College Professor

Mérida, Venezuela

May 2019 – February 2020

- **Lectured and mentored undergraduate students** in specialized technical subjects, implementing innovative pedagogical methodologies and digital tools to enhance engagement and knowledge retention.
- **Served as a Technical Jury Member** for final degree projects, auditing engineering architecture, technical feasibility, and execution standards for graduating students.
- **Provided strategic career counseling and advanced tutoring**, guiding students toward industry-standard IT certifications and the successful completion of complex curriculum milestones.

Ultratech Venezuela FP

IT Team Leader & Web Developer

Mérida, Venezuela

Jan 2014 – Jan 2020

- **Led and managed the IT department**, overseeing web development projects and corporate infrastructure for over 6 years.
- **Architected and programmed automated systems** from the ground up, significantly improving internal operational efficiency and data accuracy.
- **Engineered, deployed, and maintained electronic systems**, leveraging electronic engineering principles to integrate hardware with specialized software solutions.
- **Supervised the full lifecycle of electronics projects**, from initial evaluation and design to final operation and troubleshooting.
- **Optimized corporate connectivity and networking**, ensuring high availability and secure internet access for all business-critical equipment.
- **Monitored and audited automated corporate workflows**, implementing continuous improvements that reduced system downtime.

Freelancer

Ecommerce Developer

Mérida, Venezuela

July 2008 – January 2014

- **Engineered end-to-end E-commerce solutions** (PHP, OpenCart, PrestaShop) for manufacturing and retail sectors across Colombia and Venezuela, focusing on scalability and secure payment integrations.
- **Managed full project lifecycles and Linux server environments**, optimizing platform performance and UX to drive measurable sales growth and online visibility for independent businesses.

Certifications

Google Cloud Computing Foundations Google Cloud (Credly Verified)	September 2025
Google AI Essentials Google (Coursera) (Credly Verified)	August 2024
Google Cybersecurity Professional Certificate Google (Coursera) (Credly Verified)	December 2024
Generative AI & Prompt Engineering Specialization AWS	June 2025
LFS158: Introduction to Kubernetes The Linux Foundation (Credly Verified)	January 2025
AI & Data Science Professional	December 2025

Cisco Networking Academy (Credly Verified)	
AWS Cloud Practitioner Essentials Amazon / Fast Lane	June 2023
Remote Sensing & Drone Technology ESRI	November 2025
Agile Generalities and Applications IBM	September 2024
Career Management Essentials & AI-Powered Job Search Strategies IBM	April 2028
Other Certifications (40+ items) https://linkedin.com/in/luis-jose-espinoza-alvarado/	March 2026

Skills

-  **Software Architecture & Backend**
Python, Java, Php, Node.js, Springboot, FastAPI, REST & GraphQL APIs, Microservices
-  **Frontend Development**
React, Vue.js, JavaScript, TypeScript, HTML5/CSS3, Responsive Design, Performance Optimization
-  **Cloud, DevOps & Systems**
Google Cloud (GCP), AWS, Kubernetes, Docker, Linux SysAdmin (Debian), GIT, CI/CD Pipelines, SSH, Network Security
-  **AI & Data Science**
Prompt Engineering, Generative AI, Responsible AI, Data Analysis, Cisco Data Science, Automation, LLMs
-  **Leadership & Strategy**
Agile (Scrum/Jira), Technical Mentoring, Educational Technology, Project Management, Strategic Planning

Languages

Spanish Native	English Professional
--------------------------	--------------------------------