

# Leonel Otavalo

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## Summary

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Software Engineer with experience in full stack development, artificial intelligence, and backend process automation. I have worked with technologies such as Python, NestJS, React, and Flutter, as well as modern tools for building APIs and distributed systems. I have hands-on experience implementing cloud solutions using Google Cloud, Azure, and AWS, in addition to creating reproducible infrastructure through Terraform. I am characterized as proactive, self-taught, and team-oriented, with a strong motivation to tackle technical challenges that generate real impact in society.

## Personal Objectives

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- Consolidate and expand my technical skills in software engineering and artificial intelligence, focusing on developing innovative solutions that solve complex problems and generate positive impact in society.
- Participate in challenging projects that integrate web development, mobile, geospatial analysis, and AI models, applying this knowledge to improve processes, services, and user experiences.
- Maintain a constant commitment to self-directed learning, exploring new tools, frameworks, and technological trends to stay at the forefront in a constantly evolving environment.
- Collaborate in multidisciplinary teams, fostering the integration of technical and creative approaches to build solid, scalable technological products aligned with real market needs.

## Education

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**Escuela Politécnica Nacional, Ecuador**  
Software Engineering

2020 - 2025

## Professional Experience

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### Freelance Backend Developer

August 2024 – Present

*AWANA, Quito - Ecuador (Hourly freelance)*

- Development of robust APIs for chatbot systems and recruitment platforms with matching score logic.
- Automation of data extraction, transformation, and loading (ETL) processes.
- Intensive use of **NestJS** and **Python** for backend development and data processing.
- Implementation of cloud solutions using **Google Cloud Platform (GCP)**, **Azure**, and **AWS**, including service deployment and resource management.
- Creation of infrastructure from code with **Terraform**, facilitating reproducible and scalable environments for different projects.

### Full Stack and AI Applications Developer

May 2023 – Present

*KANECODE, Quito - Ecuador (Full-time)*

- Development of web and mobile applications using modern full-stack technologies such as React, NextJS, Flutter, and Laravel.
- Implementation of artificial intelligence solutions, including chatbots, RAG (Retrieval-Augmented Generation) systems, and intelligent conversational assistants.
- Active participation in all stages of the software lifecycle: design, development, testing, and deployment.

### Geospatial Applications Developer

March 2024 – July 2024

*Freelance (MTOPI), Quito - Ecuador*

- Processing and analysis of geographic data to generate social, technical, and economic indicators, prioritizing road infrastructure projects.
- Development of a tool for the Ministry of Transport and Public Works of Ecuador, using **Python**, **Laravel**, and **PostgreSQL** with **PostGIS**.

#### **Freelance Web Developer**

July 2023 – September 2023

OA7INGENIERIAS, Quito - Ecuador

- Development of a web application for topographic analysis supported by artificial intelligence.

## **Skills**

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**Languages and Frameworks:** Python, JavaScript, TypeScript, NestJS, NextJS, React, Laravel, Flutter

**Databases:** PostgreSQL, MySQL, MongoDB, Pinecone, ChromaDB

**Artificial Intelligence:** LangChain, OpenAI API, Chatbots, RAGs

**Cloud and DevOps:** Google Cloud, Azure, AWS, Terraform, Docker, Git, Postman

**Languages:** Spanish (native), English (intermediate B1)

**Personal Competencies:** Leadership, teamwork, analytical thinking, creativity

## **References**

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#### **Msc. Braulio Otavalo**

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#### **Eng. Homero Otavalo**

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