

# LUIS ROMERO

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## PROFESSIONAL SUMMARY

Creative Full Stack Developer, with over 5 years of experience building robust, reliable and elegant web applications. Currently focused on Web Applications and AI-integrated systems and modern web platforms using Python, TypeScript and cloud technologies. Experienced in Full Stack development, UX/UI design, LLM applications and Retrieval-Augmented Generation (RAG), working with frameworks such as LangGraph, FastAPI and Next.js. Experienced in deploying scalable web applications, especially on AWS infrastructure. Passionate about building reliable applications with intuitive interfaces and seamless user experiences. Committed to continuously learning and exploring new technologies in AI and software engineering.

## EDUCATION

### UNIVERSITAT POLITÈCNICA DE CATALUNYA

*Master in Automatic Systems and Industrial Electronics, specializing in Intelligent Systems*

BARCELONA, SPAIN

SEP. 2023 – FEB. 2025

- Graduated Cum Laude | GPA 3.52/4

### UNIVERSIDAD DE LAS AMÉRICAS

*Master in Business Administration, specializing in finance*

QUITO, ECUADOR

FEB. 2018 – FEB. 2020

- Graduated Cum Laude | GPA 3.49/4

### ESCUELA POLITÉCNICA NACIONAL

*Bachelor of Science, Electronics and Control Engineering*

QUITO, ECUADOR

SEP. 2007 – SEP. 2014

- Graduated Cum Laude | GPA 3.59/4

## PROFESSIONAL EXPERIENCE

### IAG TRANSFORM (SOFTWARE AND AI)

*Senior Full Stack Developer*

BARCELONA, SPAIN

SEP. 2025 – PRESENT

- Contributed to the development of a platform that analyzes aircraft maintenance data to generate insights that help optimize operations and reduce costs.
- Integrated an LLM-based AI agent that enables users to query maintenance data and obtain insights through a chat interface.
- Implemented a robust observability platform to monitor application performance, improve reliability and support system diagnostics.

### MIDOKURA (SOFTWARE AND AI)

*AI Software Engineer Intern*

BARCELONA, SPAIN

SEP. 2024 – FEB. 2025

- Contributed to the development and improvement of a Retrieval Augmented Generation (RAG) application, that uses internal technical documentation, to assist engineers in the development, and improve productivity.
- Optimized system performance, code readability and maintainability by refactoring the code and implementing best practices.
- Enhanced the RAG pipeline by integrating new techniques to improve retrieval and response quality.

### FREELANCE (SOFTWARE)

*Full Stack Developer*

QUITO, ECUADOR

JAN. 2018 – DEC. 2023

- Developed custom applications for clients from end to end, including database design, APIs, user interfaces and deployed in AWS.
- Built and launched websites for a variety of clients including companies in insurance, architecture and construction sectors.
- Helped businesses strengthen their online presence by developing modern websites and improving search engine visibility.

## PROJECTS

- **Aircraft Maintenance Analytics Platform.** Visualizes maintenance data and findings with interactive dashboards and analytics tools. The system enables decision-makers analyze maintenance data, identify patterns and optimize maintenance strategies. The system includes an AI assistant, powered by LLMs and LangGraph, that allows users to obtain insights easily through a chat interface.
- **Midokura RAG System.** A Retrieval Augmented Generation (RAG) System that uses internal information to aid the engineers and developers with their tasks, including coding, to enhance their productivity. Developed using Python, FastAPI, LangChain, Ollama.
- **Ingelin Management System.** Custom management platform that manages data from clients, clients' devices, devices in stock, spare parts, contracts and digital reports. The system enhances productivity and assists engineers in their tasks, by providing digital tools.

## LANGUAGES

Spanish (Native); English (Fluent); German (Basic); Catalan (Basic)

## SKILLS

JavaScript | TypeScript | Python | SQL | PostgreSQL | FastAPI | React | Next.js | Node.js | LangChain | LangGraph | LLMs | RAG | Vector Databases | Hugging Face | Docker | Kubernetes | AWS Cloud | Git/GitHub | Datadog | UI/UX Design | REST API design