

# NICOLÁS BETANCOURT

## AI Engineer

Engineer with a background in industrial engineering who transitioned into AI systems development. I enjoy working in innovation teams, integrating modern technologies with real business needs to automate processes. Specialized in agentic and LLM-based architectures, with hands-on experience in data-driven solutions and applied machine learning for production systems.

## EXPERIENCE

### AI Engineer

*Cuatro Ochenta, march 2024 - Ongoing*

- Designed and deployed agentic orchestration systems using RAG, MCP servers, and custom tools for production use cases.
- Built and evaluated ML models to classify and segment SOC alerts, improving signal-to-noise ratio and analyst efficiency.
- Developed scalable, production-ready AI services, integrated with existing backend systems and data sources.
- Proposed and delivered AI-driven MVPs using modern technologies to explore new business opportunities.

### Software Developer

*3Pi Medios, august 2022 - july 2024*

- Built scalable backend solutions to enhance customer service experiences and streamline operations.
- Integrated social media platforms with Zendesk to centralize communication and improve client support.
- Developed API solutions for seamless data integration and visualization in Power BI dashboards.

### Industrial Engineering Background

*Siemens Energy - Hitachi Energy, august 2016 - july 2022*

- Built electrical design tools for designer team.
- Simulated transformer electromagnetic behavior.
- Analyzed transformer data to optimize processes.

## EDUCATION

### Master's in Intelligent Systems

*Universitat Jaume I, 2023 - 2024*

Focused on machine learning and deep learning, with hands-on experience in data analysis and the development of intelligent and collaborative robotic systems.


### Electrical Engineering Degree


*Universidad Nacional de Colombia, 2011 - 2016*

## CONTACT

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## SKILLS

Python / TypeScript

SQL / NoSQL / Vector DB

Docker / Github

SOLID / Testing

Gen AI / ML / Pipelines

## LANGUAGES

English - B2

French - B2