

# Daniel Felipe Vargas Ulloa

Nantes, France | (+33) 7 69 97 67 28 | d.vargasu@uniandes.edu.co  
linkedin.com/in/daniel-vargas-u

Engineering student in a double-degree program at École Centrale Nantes and University of the Andes, with professional experience in data analysis, signal processing, predictive analytics, anomaly detection, and development of data pipelines.

## EDUCATION

**École Centrale de Nantes** Nantes, France  
*Diplôme d'Ingénieur (Master's level Engineering Degree)* 2025 – 2027

- Specialization: Computer Science for Information Systems

**University of the Andes** Bogotá, Colombia  
*Bachelor's in Systems and Computing Engineering* 2021 – 2027

- Minor in Computational Mathematics. GPA: 4.4/5.0
- Honors: National Recognition for Top Performance, Colombian Ministry of Education (2024)

## EXPERIENCE

**Undergraduate Teaching Assistant, Software Development** Aug 2024 – Dec 2024  
*University of the Andes* Bogotá, Colombia

- Co-delivered a full-stack software engineering course (Angular, Spring, REST APIs).
- Mentored undergraduate student teams on Agile development practices, version control, test-driven development, and container-based deployment using Docker.

## PROJECTS

**Clinical Anomaly Detection in Pediatric Intensive Care Units** Jan 2025 – Jul 2025  
*Collaboration with Central Military Hospital of Bogotá*

- Developed a machine learning solution to forecast clinical deterioration in pediatric patients by analyzing bedside monitor data in real time.
- Designed data pipelines for ingestion, preprocessing, and anomaly detection to support early clinical decisions.

**Predictive Analytics System for Academic Dropout Risk** Aug 2024 – Dec 2024  
*Collaboration with National Sports University of Colombia*

- Implemented predictive modeling and dashboards to identify students at risk of dropout and enable early academic intervention.
- Performed SQL querying, feature engineering, and model training to deliver actionable insights via Power BI.

## SKILLS

**Programming Languages:** Python, Java, Go, C++, SQL  
**Data & Machine Learning:** Signal Processing, Data Modeling, Anomaly Detection, Data Pipelines, Model Evaluation  
**Backend & Data Systems:** Spring Boot, Flask, Django, Docker, PostgreSQL, MongoDB, Linux, Git, Google Cloud

## LANGUAGES

Spanish (Native), English (C2 - Fluent), French (B2 - Advanced)