

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

Diplôme d'Ingénieur (Master's level Engineering Degree)

Nantes, France
2025 – 2027

- Specialization: Computer Science for Information Systems

University of the Andes

Bachelor's in Systems and Computing Engineering

Bogotá, Colombia
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

University of the Andes

Aug 2024 – Dec 2024
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)