Daniel Felipe Vargas Ulloa

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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. Seeking a 4-month internship starting May 2026 to play a key role in data-driven engineering projects.

EDUCATION

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

- Specialization in 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

- 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 production-oriented course on designing, implementing and deploying full-stack applications, with emphasis on React frontends, Spring microservices and REST APIs.
- Guided development teams in applying Agile methodologies, Git-based version control, test-driven development, and containerized 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 real-time predictive modeling system to identify early signs of clinical deterioration in pediatric patients using bedside monitor data.
- Designed and implemented end-to-end data pipelines for data ingestion, signal preprocessing, and anomaly detection to support timely clinical decision-making.

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

- Built predictive models and analytical dashboards to identify students at risk of academic dropout and enable early intervention strategies.
- Conducted SQL-based data extraction, feature engineering, and model training, delivering actionable insights through 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)

INTERESTS

Historical literature – Interested in European and American history, particularly works on social change.
Analog photography – Enthusiast of Polaroid photography, enjoying instant film and thoughtful composition.
Bouldering & rock climbing – Climb weekly to build strength and resilience through consistent, iterative practice.