

SEBASTIÁN CARDONA RAMÍREZ

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LinkedIn | Medium

Professional Profile

Software Engineering student with a strong focus on Backend Development and Data Analysis. Experienced in the Python ecosystem, data modeling, API development, and advanced analysis using Power BI, Excel, and Pandas. Oriented toward building efficient, data-driven solutions with critical thinking, technical simplicity, and visual clarity. Certified in Emotional Intelligence (CUN) and Soft Skills (Hab Com Learn).

Technical Skills

- Programming & Web: Python, HTML5, CSS3
- Backend Frameworks: Flask, FastAPI
- Data Analysis & Visualization: Pandas, Native Regex, Matplotlib, Seaborn, Power BI, Excel
- Databases: MySQL, PostgreSQL
- IoT & Protocols: MQTT, ESP32
- Machine Learning: Scikit-learn
- Tools & DevOps: Git, GitHub, REST APIs, Render

Highlighted Projects

Data Cleaning and Normalization with Regex and Pandas

Project focused on cleansing large-scale datasets through native regular expressions and Pandas processing. Includes format standardization, noise removal, normalization, and generation of analytical reports.

Cancer and Colombian Migration Data Analysis & Visualization

Statistical exploration of national datasets related to cancer incidence and migration patterns. Development of dashboards using Power BI and Matplotlib, featuring temporal comparisons, critical trends, and demographic correlations.

Fire Monitoring System

IoT-based solution for early detection of environmental risk conditions. Backend built with FastAPI, data ingestion via MQTT, storage in PostgreSQL, and an analytical dashboard for variables such as temperature, smoke, and gas levels. Includes real-time visualization and alerting mechanisms.

Education

B.Sc. in Software Engineering – Universidad Cooperativa de Colombia

Expected Graduation: 2026

Complementary Technical Experience

- Design and development of RESTful APIs using Flask and FastAPI.
- Dashboard development with Power BI and advanced data visualizations in Python.
- Data processing and automation using Pandas and Excel.
- Implementation of exploratory data analysis pipelines and basic machine learning models.
- Deployment of web applications on Render and version control with GitHub.

Additional Information

- Technical articles published on Medium (backend, data analysis, IoT).
- Active participation in software communities and personal projects.
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