Sebastián Cardona Ramírez

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LinkedIn | Medium

Professional Summary

Software Engineering student with hands-on experience in full-stack development, data analysis, and IoT-based systems. Passionate about building scalable, efficient, and data-driven solutions with a strong emphasis on clean web interfaces and robust backend services. Specialized in real-time data monitoring, interactive dashboards, and RESTful API design.

Technical Skills

- **Languages:** Python, JavaScript, HTML5, CSS3
- **Web Frameworks & Technologies:** Flask, FastAPI, Dash, Streamlit, Chart.js
- **Data Analysis & Visualization:** Pandas, Seaborn, Matplotlib, Power BI, Excel
- **Databases:** MySQL, PostgreSQL
- **IoT & Protocols:** MQTT, ESP32, Arduino IDE
- **Machine Learning:** Scikit-learn
- **Tools:** Git, GitHub, RESTful API Design, Render, Linux

Featured Projects

Energy-Efficient Monitoring System
Developed a real-time IoT monitoring system for temperature, humidity, and gas levels using ESP32 and MQTT. Built the backend with Flask and MySQL; implemented data visualization with Chart.js and Excel. Designed to detect hazardous conditions in industrial environments.
*Tools: ESP32, MQTT, Flask, Chart.js, Arduino IDE***DataExplorater**
Created a web-based Exploratory Data Analysis (EDA) tool that allows users to upload `.csv` or `.xlsx` files and instantly generate descriptive statistics, plots, and correlation matrices.
Tools: Streamlit, Pandas, Seaborn, Matplotlib

Education

B.S. in Software Engineering
Universidad Cooperativa de Colombia
Expected Graduation: 2026

Additional Technical Experience

- Developed REST APIs using Flask and FastAPI for full-featured web apps.
- Built interactive dashboards with Power BI and Streamlit for academic and personal projects.
- Automated data wrangling and analysis tasks using Pandas and NumPy.
- Deployed personal portfolio and data tools on Render; version control with Git and GitHub.

Extras

- Technical writer on Medium (topics include data analysis, IoT, backend architecture).
- Active member of open-source communities and online tech forums.
- Projects available at: **folio-oatm.onrender.com**