Raúl Herrera Delgadillo

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PROFESSIONAL SUMMARY

Computer Systems Engineering student at **Universidad Lamar** with a genuine passion for Data Analysis and Software Development. Beyond academic theory, I build practical tools—from simulating bank data analysis with **Python** to creating interactive web apps with **JavaScript**. I am **dedicated to continuous technical growth** and seek a challenging environment where I can translate my curiosity into scalable, real-world solutions.

EDUCATION

2024 – 2026	**Universidad Lamar, Guadalajara** — B.S. in Computer Systems Engineering (In progress)
2025 – 2026	**Data Analysis Bootcamp – TripleTen**
2023 – 2024	**Master in Coding – DEV.F**

WORK EXPERIENCE

September 2022 – May 2023 (8 months) FlexTronics, Guadalajara – Technical Operator
Executed strict quality control protocols for 5+ manufacturing lines, ensuring 100% adherence to ISO standards. Optimized operational efficiency in a high-volume environment by reducing equipment downtime by **15%** through proactive maintenance checks.

September - December 2025 (Internship) Nubir, Guadalajara — IT Intern
Developed and implemented a support chatbot to automate the creation and logging of technical support tickets. This project involved process analysis and basic scripting.

PROJECTS

EnergyEngine: Grid Resilience Platform (Django, React)   Source Code
Engineered a full-stack analytical platform to monitor European power grid resilience (DE, FR, ES) using live **ENTSO-E** data. Implemented **MAE** tracking and custom resilience scoring, processing 5,200+ records. Orchestrated with **PostgreSQL** and fully containerized using **Docker**.

Vehicle Market Insights (Python)   Live Demo
Engineered a real-time analytics tool processing a dataset of **47,000+ vehicle records** using **Pandas**. Developed an interactive dashboard with **Streamlit** and **Plotly** to visualize depreciation trends, reducing market research time by 90% for end-users.

Bank Customer Churn AI (Python)   Live Demo
Developed a digital bank simulator and predictive pipeline using **Scikit-learn** (Random Forest), achieving **85% accuracy** in churn prediction. Integrated a **Streamlit** interface to translate complex ML risk scores into actionable business insights.

Modern E-commerce Core (JavaScript) [Live Demo](#)

Architected a high-performance web platform using **Vanilla JavaScript (ES6+)**, achieving **sub-100ms** load times. Implemented a custom state management system and DOM manipulation logic, eliminating dependencies on heavy frameworks.

Check all projects and documentation at:

raulherrera09.github.io/RaulHerrera.github.io/

TECHNICAL SKILLS

Programming Languages	JavaScript , **Python**, C#, R
Data Analysis	**Pandas, NumPy, Matplotlib, Scikit-learn , Jupyter Notebooks**
Data Base	SQL (PostgreSQL, MySQL, MongoDB, BigQuery)
Cloud & DevOps	AWS (EC2, S3, RDS), Docker, CI/CD, Linux
Visualization	**Tableau, Power BI, Seaborn, Streamlit**
Technologies	Git/GitHub, VS Code, Cursor, HTML/CSS, React.Js, Node.js, Django
AI & Automation Tools	n8n, OpenAI Codex, Google Gemini, Anthropic Claude
Languages	Spanish (Native), English (B2), French (A1)

SOFT SKILLS

Communication	Ability to express ideas clearly and effectively, adapting to diverse contexts.
Teamwork	Experience collaborating in academic and personal projects.
Analytical Thinking	Logical approach to identifying and solving problems.
Continuous Learning	Strong commitment to acquiring new technologies and methodologies.