Luis Angel Gramillo Estrada

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Professional Profile

I consider myself a cautious person with a strong ability to solve problems through analytical thinking. I am interested in using programming languages for creating dashboards, performing data analysis, predicting data trends, and solving problems at their root. I believe in the power of data to generate valuable information, make informed decisions, and make reliable predictions.

Education

Monterrey Institute of Technology and Higher Education, B.S in engineering physics   Aug 2020 – Jun 2024

- GPA: 97.11
- **Coursework:** Numerical modeling, Stochastic Systems, Deterministic Systems, Optical Characterization.

Experience

Automation Engineer, Corning Incorporated   Aug 2024 – Currently

- POWER BI Report Creation Using Database Requirements, Data Transformation, and Software Algorithms in Python, SQL and Power Query M language.
- Release of machines through debugging, piloting, and other processes.
- Improvement of machine efficiency using PLC logic modification, mechanical improvements, and metrics analysis.
- Documentation of machine updates in meetings, reports, and communication groups.

Tec.Data Intern, Monterrey Institute of Technology and Higher Education   March 2024 – Jun 2024

- Development of a graphical interface for testing different APIs from the Tec.Data department, I am focused on the development of code for reading and visualization of API data.
- Request to APIs, reading.json documents with a JSONAPI standard, and development of classes, functions, and documentation needed to display data

Light propagation through refractive elements, Research Stay   Aug 2023 – Dec 2023

- Development of a MATLAB algorithm that applies visual optics theory and a ray tracing method to simulate the propagation of light through optics elements such as thin lenses, refractive surfaces, etc.
- Research, literature review, numerical methods, graphics generation
- **Skills**: MATLAB, matrix representation of optical arrays, iterative methods, object-based programming

Technologies

Software: Python (advanced), Matlab (advanced), SQL (intermediate), R (intermediate), HTML, CSS, JS (intermediate).

Technologies: Microsoft Office, SoldiWorks, Google Looker Studio, Power BI, PostgreSQL, MySQL, Github, Git.

Others: Mathematical methods, data visualization, deep learning models, neural networks, statistical analysis, scientific writing, Linux shell.

Soft Skills: Problem solving, adaptability, teamwork, proactive, compromise, resilient, time management.