

# Luis Gerardo Juarez Garcia

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## EDUCATION

### Instituto Tecnológico y de Estudios Superiores de Monterrey

Monterrey, NL

*Bachelor of Science, Computer Science and Technology*

*Aug. 2022 – June 2026*

- Relevant Coursework: Calculus, Data Science and Mathematics, Object Oriented Programming, Statistical Analysis, Programming of Data Structures and Algorithms, Software Construction and Decision Making, IoT, Multiagents

## EXPERIENCE

### Data analyst – Didi Internship

Jul 2024 – Dec 2024

*DRV Onboarding and Data Intern*

*Monterrey, NL*

- Monitored background check performance for app users across 9 Latin American countries by writing SQL queries and developing a dashboard to visualize weekly data trends. Communicated with cross-functional teams to analyze significant fluctuations in data and implement solutions to optimize the onboarding process.
- Designed and deployed a Python script to enhance security using graph structures and clustering algorithms to group users based on shared variables, improving data integrity and user classification accuracy.
- Automated compliance monitoring by creating SQL queries and interactive dashboards to track background check incidents, fraud detection, and outdated processes. Optimized query performance, reducing previous result delivery time from 7 business days to just 1, significantly improving team responsiveness and decision-making. Ensured updates to past user records were efficiently communicated to relevant teams.
- Streamlined the analysis of user-uploaded file performance across regions through SQL-powered dashboards, providing real-time visualizations and actionable insights to improve operational efficiency and inform strategic decisions for multiple teams.

### Data Analyst / Developer – On Campus Intern

Feb. 2024 – Present

*Data management and dashboard development*

*Monterrey, NL*

- Collaborating with sales and marketing stakeholders to gather dashboard requirements and define KPIs
- Developing automated data integration pipelines using Python and APIs to connect Excel sources to Azure databases, Designing and performing data processing workflows in Azure cloud environment
- Building interactive Power BI dashboards with custom visualizations to display key business metrics, Conducting dashboard testing and refinement to ensure data accuracy and interface usability
- Presenting dashboard functionality and benefits to stakeholders, highlighting business impact and creating comprehensive documentation and user guides for dashboard interaction

## PROJECTS

### Viva Aeurobus Data Analysis | *Python, Scikit-learn, Pandas, Matplotlib, Tensorflow, Excel*

May 2024

- Developed cutting-edge machine learning prediction models to forecast passenger numbers and product sales for Viva Aerobus flights. Utilized advanced data preprocessing techniques and gradient boosted decision trees to deliver accurate and actionable insights, positioning our team among the top performers in the Datathon 2024.

### RecicloApp | *Swift, CoreML, MapKit, Git*

Oct 2024

- Developed an iOS app promoting responsible recycling, featuring a CoreML-powered waste identification scanner, an interactive MapKit-based recycling center locator, and a user-friendly interface built with SwiftUI.
- Designed and implemented the app's core functionalities, including machine learning model integration, real-time map updates, achieving 95 percent accuracy in waste classification.
- Selected to participate in the Expo Ingenierías ITESM 2024, receiving positive feedback from over 10 judges for its innovation and functionality.

## TECHNICAL SKILLS

**Languages:** Python, C++, SQL, JavaScript, HTML/CSS, Swift

**Frontend/Backend:** React, Firebase, Node.js, React.js, Next.js, Azure, Oracle Cloud

**Developer Tools:** Git, GitHub, Figma, Unity, MATLAB, VS Code, OpenAI, Power BI, Arduino, APIs, Jupyter Notebook