

# Luis Santiago Benvenuto Valerdi

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## EDUCATION

### International Baccalaureate - Tecnológico de Monterrey

Aug 2021 – May 2024

GPA 96.5/100

### Instituto Tecnológico y de Estudios Superiores de Monterrey – ITESM

Aug 2024 – Jun 2028

*Bachelor of Science in Data Science and Mathematics (Academic Talent Scholarship)*

GPA 97/100

## WORK EXPERIENCE

### ISIASA - Data Analyst Intern

May 2024 – Sep 2024

Data Analyst Intern of ISIASA, company dedicated to improving the profitability of companies through industrial automation, helping control and monitor processes.

- Designed and implemented an **expense management** software achieving efficiency in accounting and finance department.
- Implemented a **SQL database**, enhancing productivity by easily accessing data and producing analysis.
- Conducted **analysis on market tendencies** and sales, forecasting sales and market share.

### YouthScience(Prometheus Research Program) – Data Analyst Researcher

Aug 2024 – Present

Member of the representative research group from Tecnológico de Monterrey.

- Currently conducting extensive research on **optimization and efficiency** with a **vehicle routing problem** inside Cemex, aiming to improve delivery times and achieve greater **operational efficiency**.
- Developing a real-time notification system that informs operators about changes in routes, streamlining the adjustment and distribution process.

## PROJECTS

### Payment Register, Internal Assessment Computer Science IB subject

May 2023 – Sep 2023

Internal assessment project application developed to efficiently manage worker income, their expenses, and forecast their available capital in the short and long term.

- Application capable of **registering data** from an employee and **keeping a record** of all their financial status.
- Project developed with Java, applying tools such as **Object-Oriented Programming**, management of **data structures** and archives usage.

### Candidates-RoBorregos

Oct – Nov 2024

Project developed for the contest organized by RoBorregos annually.

- Developed an **autonomous robot focused** on solving multiple challenges, such as a **maze**, grabbing objects and following lines.
- Implemented **Arduino** with multiple sensors such as encoders, gyroscope, infrared sensors, color sensor and ultrasonic sensor.
- **First place** in the contest as a **programmer** with my team that consisted of another programmer and an electronic

### Salander

Oct 2024

An efficient and adaptable platform for processing seismic data within the solar system.

- Focused on a **multi-algorithm platform** that can adapt to the restraints of the infrastructure and the needs of the researcher.
- The researchers can select the automated seismic station to perform a **specific algorithm**, based on the **computational power** available and the **desired accuracy** in the data.
- Platform developed with Flutter, Python and FastAPI

## VOLUNTEERING

### Limitless/Unidos

Aug 2022 – May 2024

Member and volunteer of a student group (Limitless) linked with Unidos, organization focused on **transforming lives** through the interaction of people with and without disabilities through experiential activities to achieve a more **conscious, empathetic, and inclusive society**.

### Saché

Aug 2022 – May 2023

Volunteer in a social project with the goal of reducing school dropout rates and encouraging middle school students to acquire a higher education.

- **By giving lessons and support throughout their academic journey**, we aim to encourage a positive attitude toward education.
- Through interactive, practical, and innovative **math classes**, my students not only have **fun while learning** but also see **improvements in their grades**.

## SKILLS

### PROGRAMMING LANGUAGES:

*Python (3 years)*

*C++, Java (2 years)*

*SQL, R, JavaScript, Swift (1 year)*

### LANGUAGES:

*Spanish Native*

*English Advanced (C1)*

*French Intermediate (B1-B2)*

*German Basic (A1-A2)*

### TECHNOLOGIES:

*Tensorflow, Scikit-learn, LaTeX, Swift UI, HTML, CSS, React, Next.js, Tableau, OpenAI API, Arduino, Pytorch, Ubuntu, Android Studio, Flutter, Firebase, Github.*

### AWARDS & CERTIFICATIONS:

- *Second place in a national calculus contest, Calculus Open contest, March 2024*
- *First Place at Nasa Space Apps Challenge in IBERO CDMX, October 2024*
- *University of Michigan, Linear Regression Modeling for Health Data, July 2024*
- *University of Michigan, Arranging and Visualizing Data in R, July 2024*
- *Duke University, Introduction to Machine Learning, August 2022*

## SOFT SKILLS

Teamwork, Time management, Communication, Creativity, Problem-Solving, Leadership, Work ethic, Interpersonal Skills.