Isaac Rojas Sosa

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EDUCATION

Monterrey Institute of Technology and Higher Education   **Expected Graduation: June 2026**

Bachelor of Science, Computer Science and Technology   GPA: 92.5/100
- Relevant Coursework: Calculus, Data Science and Mathematics, OOP, Statistical Analysis, Programming of Data Structures and Algorithms, Software Construction and Decision Making

EXPERIENCE

DiDi   **July 2024 - Present**

Operations Intern   **Monterrey, NL**
- Will develop and implement **automation scripts** using **Python** and **SQL**, aiming to significantly reduce the time required for routine data processing and operational tasks. And conduct **data analysis** to generate insights, optimize business processes, and support data-driven decision making.

Tec de Monterrey – On Campus Intern   **Feb 2024 - Present**

Full Stack Developer   **Monterrey, NL**
- Engaged in **database maintenance** and updates, focusing on optimizing data integrity and accuracy within the Control Tower Development area, which oversees entrepreneurship events and initiatives for the 26 campuses of the university.
- Automated data processing tasks using **Python**, reducing the time required from 6-10 hours weekly to mere minutes, with a script for **data cleaning, processing**, insertion into **SQL**, and verification through queries.
- Working on new features, including a chatbot assistant to aid in tracking questions and progress made by entrepreneurs.

EXTRA-CURRICULAR ACTIVITIES

Cybersecurity TEC Club   **Feb 2024 - Present**

Social Responsibility Coordinator – Web Developer   **Monterrey, NL**

Innovaction Gym Event Dashboard | GitHub | Video Demo
- Developing a **React-based dashboard** to revolutionize event management for the Innovaction Gym at Tec de Monterrey. Features include a calendar accessible to students and an interactive map for event locations, previously exclusive to the administration team.
- Creating a platform with an admin dashboard that streamlines event registration, **facilitates data management**, and **improves report generation** for events hosted by over 20 student clubs and organizations on campus.
- Utilizing **React**, **Flask**, **MySQL**, and **TypeScript** to build a robust, efficient, and **scalable application.**

MAJOR PROJECTS

Personal/Portfolio Site: https://isaacrs-portafolio.vercel.app/

Rockwell Factory Simulation | GitHub | Video Demo | Website   **Apr 2024 – June 2024**
- **Led the full stack development** of a web-based platform using **Next.js,** showcasing RockWell Automation's Digital Thread through interactive experiences, as part of a 5-person team.
- **Designed and implemented** user authentication, personalized dashboards, and interactive maps, **enhancing user experience and improving data visualization for admins** and user interaction's reliability in the simulated environment.
- Managed database integration and API connections using **PostgreSQL** and **JavaScript**, ensuring seamless data flow and system.

Olli APP Electricity Consumption Prediction | GitHub | Devpost   **May 2024**
- Point Developed an **interactive web platform using React**, enabling users to visualize **and explore electricity consumption predictions with 90% accuracy.**
- Implemented dynamic map features and logic to provide detailed, region-specific energy consumption data, enhancing user engagement and information accessibility.

Eco Guardian | GitHub   **Oct 2023 – Nov 2023**
- **Led a 5-member team** in designing and developing a dynamic, responsive website using **HTML**, **CSS**, and **JavaScript** to showcase real-time environmental data for an IoT-based forest fire monitoring system.
- Implemented **PHP** and **MySQL** for seamless data retrieval and **dynamic content generation**, including an interactive map displaying device locations and risk levels to enhance user interaction and data visualization.

Opti-Food | Hackathon Project | HackMTY 2023   **September 2023**
- Collaborated in a team of 4 to create a recipe discovery app using **HTML**, **CSS**, and **JavaScript**, focusing on ingredients available in users' pantries to reduce food waste.
- Implemented OpenAI's API to prioritize recipes with soon-to-expire items, leading to a **top 10 placement out of 130** teams at **HackMTY**, **Mexico's largest Hackathon** certified by MLH.

SKILLS

Languages	Python, C++, JavaScript, PHP, HTML/CSS, C#, SQL, TypeScript
Frontend/Backend	React, Next.js, Flask
Developer Tools	GitHub, Figma, Unity, MATLAB, VS Code, OpenAI, Excel