Isaac Rojas Sosa

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EDUCATION

Tecnológico de Monterrey   Expected Graduation: June 2026

*B.S. Computer Science and Technology | **GPA**: 93.5/100*   *Monterrey, Mexico*
- **Coursework**: Data Structures and Algorithms, Object Oriented Programming, Data Science and Mathematics

EXPERIENCE

Software Engineer Intern   Feb. 2024 – Present

Tecnológico de Monterrey   *Remote*
- Developed a Python script to automate student registration verification, cross-referencing Excel data with a central database across 26 campuses, cutting manual workload by 25%.
- **Automated** data cleaning, processing, and SQL insertion of event records using **Python** and **pandas**, **reducing a 6-8 hour weekly** task to **minutes** and **cutting processing time by 98%**.
- Developed a **Python** script to cross-reference 3 semesters of event records with a **MySQL** database, **identifying 398 missing** attendance logs and improving data accuracy for decision-making.

Operations Intern   Jul. 2024 – Present

DiDi   *Monterrey, Mexico*
- Automated promotion optimization with a **Python** script using the **Google Sheets API**, streamlining weekly dish and coupon selection across complex, variable data inputs and reducing manual errors.
- **Increased ad engagement by 20%** by delivering targeted, data-driven promotion outputs to the Channels team, enhancing visibility and user attraction through optimized discounts, free delivery, and churn-specific offers.
- Developing an intuitive interface for non-technical staff to deploy the tool across DiDi Peru, with plans for rollout in Colombia, Mexico, and Costa Rica

PROJECTS

Personal Portfolio | https://isaacrs-portafolio.vercel.app/ | *Next.js, Javascript,CSS*

JobHill | *Next.js, Python, Javascript, PostgreSQL, Supabase, CSS*   Website | Github
- Built a web platform using **Next.js** for students to find tech internships, with **50+ users** managing and tracking their applications through personalized dashboards.
- **Integrated Supabase for secure user authentication** and **real-time job offer updates**, ensuring a smooth and efficient experience.
- Automated **web scrapping** and **data extraction** to validate, clean, and integrate job application data into Supabase database, ensuring accurate and **real-time updates**.
- **Streamlined backend operations** by automating the retrieval of company logos via API and integrating them into the system, maintaining a robust and up-to-date database with **minimal manual intervention**.

Optifood | *Next.js, Javascript, Firebase, Python, Flask, Gemini Api CSS*   Github
- Developed a pantry tracking website to **reduce food waste** by generating personalized recipes based on users' ingredients, prioritizing those nearing expiration to maximize resource use and minimize waste.
- Integrated **Firebase** and **Gemini API** for real-time ingredient storage and dynamic recipe recommendations, fostering a community-driven platform where users can contribute recipes and manage personalized pantries.
- **Led a team of four** in developing the initial concept, securing a **top 10 placement out of 130 teams** at HackMTY 2023, **Mexico's largest student hackathon** certified by MLH.

Innovaction Gym Events | *React.js, Typescript, Flask, MySQL, CSS*   Github | Demo
- Leding the **front-end development** of a React-based dashboard for the Innovaction Gym at Tec de Monterrey, featuring a dynamic calendar and interactive map to streamline event scheduling and location management.
- Designed an admin dashboard to optimize event registration, data management, and report generation, enhancing efficiency for staff overseeing events for 20+ student clubs and organizations.

TECHNICAL SKILLS

Programming Languages: **Proficient:** Javascript, Python, C++. **Beginner:** Swift, TypeScript, C#, PHP, R, MATLAB.

Technologies: React.js, Next.js, Flask, Supabase, Firebase, HTML, CSS, Vercel, SQL, Git, Unity, Github, Figma, PostgreSQL