Isaac Rojas Sosa

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EXPERIENCE

Incoming Software Engineer Intern   Jul 2025
Oracle   *GDL*

Software Engineer Intern   Feb 2024 – Feb 2025
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 – Dec 2024
DiDi   *Monterrey, Mexico*
- Designed and implemented an internal tool using **Python** to **automate promotion and campaign generation** for DiDi Peru, reducing manual effort by analyzing weekly-changing business rules and variable promotions.
- Streamlined data collection and processing with **pandas**, integrating live updates from Google Sheets to ensure accuracy, to apply rules and generate optimized dish lists with targeted discounts and offers.
- **Increased ad engagement by 20%** by delivering data-driven promotions to new customers, boosting visibility and user attraction, and documented the tool's scalability for potential rollouts in other countries.

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

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 applications through personalized dashboards, ensuring a seamless user experience.
- Implemented automated **web scraping** workflows with Beautiful Soup and GitHub Actions to fetch the latest job offers every 6 hours, validate their status every 12 hours, and update the Supabase database with accurate and real-time information.

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.

Museo del Papalote App | **IOs App** | *Swjft*   Github | Demo
- Developed an interactive map using **SwiftUI** and **SceneKit** to display 3D models of exhibitions, enhancing visitor engagement and providing a dynamic navigation experience within the museum.
- Implemented a backend system integrated with **Supabase**, optimizing data retrieval by fetching information only once and updating it conditionally, reducing app latency and improving efficiency.
- Collaborated with a team to design and deliver the most innovative app in a class-wide competition, earning recognition and the opportunity to publish the app for museum visitors and staff.

TECHNICAL SKILLS

Languages: Python, Javascript, C++, Swift, TypeScript, C#.
Frontend/Backend: React.js, Next.js, HTML/CSS, SQL, MySQL, PostgreSQL, Flask.
Developer Tools: Supabase, Firebase, Vercel, Git, Unity, Github, Figma, Jupyter Notebook, MATLAB, APIS