

# Andres Martinez

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## EDUCATION

**Instituto Tecnológico de Estudios Superiores de Monterrey**

*B.S. in Computer Science and Technology*

Hermosillo, Mexico

*August 2022 - Present*

**Anticipated Graduation Date:** June 2026

Relevant Coursework

- Object-Oriented Programming
- Data Structures and Algorithms
- Statistical Analysis

## PROFESSIONAL EXPERIENCE

**Frontend Engineer** | *Laboratorios Obregon*

June 2023 – August 2023

- Developed a fully functional website, focused on showing information about Laboratorios Obregon, a medical laboratory focused on research and healthcare located in Cananea, Sonora.
- Collaborated in the development of a component that shows the current position of the laboratory by a virtual map through an open-source map API.
- Served as a way of learning about APIs, **Vite**, and overall Fullstack development.

## PROJECTS

**Seatrack** | *React.js, Flask, TailwindCSS, SQLite, AWS, Nginx, Gunicorn*

November - January 2024

- Developed a web application focused on tracking Marine Debris in real time on a global scale.
- Used in **React**, employed **Flask** and **SQLite** to store and retrieve data for authentication and visualization purposes. Used **OpenLayers** to graphically show data in real time.
- Deployed in **Amazon Web Services**, using **Nginx** and **Gunicorn**. Acted as a means of integrating statistical analysis in a real-world scenario.

**BazApp** | *React Native, Node.js, Firebase*

October 2023

- Designed an iOS and Android Application that helps bridge the gap between the informal marketplace and technology by making a centralized system that shows different products being sold as well as information about the next bazaar events..
- Developed in **React Native**, used **Firebase** for storage and information retrieving purposes.
- Served as a way of learning about Mobile development through **React Native** as well as learning about Databases and API fundamentals.

**Space Symphony** | *React.js, Node.js, Typescript, Netlify*

October 2023

- Developed an interactive webapp that analyzes NASA's Space Videos and designs and creates melodies based on its different components and elements.
- Submitted to the 2023 NASA Space App Challenge competition in Hermosillo, Mexico.
- Deployed in **Netlify**. Served as a way of comprehending new ways of implementing accessibility and combining technical with artistic skills in a fast-paced environment.

**Fridge.io** | *React.js, Node.js, Roboflow, Flask*

September 2023

- Developed a web application that analyzes a photo of your fridge and, using OpenAI's API, shows which recipes to do with the available ingredients at home.
- Submitted to the 2023 HackMTY Hackathon competition in Monterrey, Mexico.
- Served as an introduction to Computer Vision, Machine Learning and Vectorial Databases.

## TECHNICAL SKILLS

**Languages:** Python, C/C++, Typescript, JavaScript, HTML/CSS, R, MATLAB, Arduino

**Frameworks:** React, Node.js, TailwindCSS, SwiftUI, Vite, React Native

**Developer Tools:** Git, Heroku, VSCode, Visual Studio, PyCharm, IntelliJ, XCode, Github Codespaces, SQLite, AWS

**Libraries:** Pygame, NumPy, Matplotlib, Roboflow, OpenAI API, Firebase API