Andres Martinez

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EDUCATION

Instituto Tecnologico de Estudios Superiores de Monterrey   Hermosillo, Mexico
B.S. in Computer Science and Technology   *August 2022 - June 2026*

PROFESSIONAL EXPERIENCE

Frontend Engineer Intern | *Laboratorios Obregon*   June 2023 – August 2023
- Engineered a fully functional platform showcasing Laboratorios Obregon, a prominent medical laboratory specializing in research and healthcare located in Cananea, Sonora.
- Developed a dynamic component to display the laboratory's current position using a virtual map integrated with an open-source map API.
- Successfully launched the website, now utilized by over 500 people throughout the state, significantly enhancing the laboratory's online presence and accessibility.

PROJECTS

Encora Talent Management Platform | *React.js, Typescript, NodeJS, PostgreSQL*   February - May 2024
- Directed a cross-functional team in developing a comprehensive Talent Management Platform for Encora Inc., enhancing team collaboration and productivity.
- Designed intuitive platform interfaces with Figma, integrating user feedback to improve usability and learning Web Servers, Real-Time Collaboration, and Cloud Computing.
- Deployed the application through Vercel, gaining hands-on experience with Relational Databases, ORMs, and optimizing TypeScript for efficient performance.
- Developed an algorithm that streamlined development processes, reducing overall development time by up to 30%.

Seatrack | *React.js, Flask, TailwindCSS, SQLite, AWS*   November 2023 - January 2024
- Developed a web application for real-time global tracking of Marine Debris, enhancing environmental monitoring and data accuracy.
- Implemented front-end with React.js and back-end with Flask and SQLite for robust data storage, retrieval, authentication, and visualization, using OpenLayers for real-time data representation.
- Deployed on Amazon Web Services (AWS) with Nginx and Gunicorn, integrating statistical analysis into 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.

Fridge.io | *React.js, Node.js, Roboflow, Flask*   September 2023
- Developed and designed 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, Swift (iOS), HTML/CSS, R, MATLAB, Arduino, Java, SQL
Frameworks: NextJS, React, Node.js, TailwindCSS, SwiftUI, Vite, React Native
Developer Tools: Neovim, Git, Heroku, VSCode, Visual Studio, PyCharm, IntelliJ, XCode, Github Codespaces, SQLite, AWS, Azure, Google Cloud, Vercel, Figma
Libraries: Pygame, NumPy, Matplotlib, Roboflow, OpenAI API, Firebase API, Bootstrap, SequelizeTS