

Bernardo de la Sierra Rábago

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EDUCATION

August 2021 - Present	B.S. in Computer Science at Tecnológico de Monterrey	Expected July 2025
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PROJECTS

Feb 2024 - Present	Vita - Healthcare Application <ul style="list-style-type: none">Developed Vita, a health-focused application addressing nutrition, exercise, and sleep concerns in response to Mexico's obesity challenges.Utilized Next.js for the web frontend, ensuring a user-friendly interface and Flutter for a seamless experience across mobile devices.Collaborated on API functions to connect the web and ChatGPT with WhatsApp for a personalized health guidance chatbot.
Nov 2023 - Present	ArVis - Architectural Vision Application <ul style="list-style-type: none">Developed an architectural vision application for students using VisionPro, UnityPro, and Blender that allows students to view their 3D architectural models with improved definition.Enhances the educational experience by providing a user-friendly interface for exploring and analyzing designs.
Jan 2024 - Feb 2024	AcrossMexico - Educational Application <ul style="list-style-type: none">Developed a video game utilizing SwiftUI and SpriteKit showcasing Mexican culture based on personal experiences.Used RealityKit and Blender to create interactive AR models for the user.Swift Student Challenge Award 2024
Sep 2023 - Jan 2024	TECuido - iOS Medical Assistant Application <ul style="list-style-type: none">Engineered an innovative iOS medical assistant app for the hearing impaired published on the App Store, utilizing SwiftUI, MapKit, Docker and Express.Integrated AI for precise injury recognition and diagnostics, leveraging CoreML.Incorporated inclusive features like speech-to-text and text-to-speech for real-time video calls.Empowered users with the capability to send real-time emergency alerts between devices.

WORK EXPERIENCE

Aug 2023 - Present	MAE Web Platform Development - Empowering Student Academic Mentorship <ul style="list-style-type: none">Spearheaded the creation of a user-centric website for the administration of the Student Academic Mentorship program at Tec de Monterrey, serving on average 3,500 monthly users.Utilized Vue.js for a responsive user interface and leveraged Firebase technologies, including secure user sign-in via Firebase Authentication and real-time data storage with Firestore.Collaborated in the development of the mobile platform with Flutter for enhanced usability.
Dec 2022 - Feb 2023	Proyecto 99 - Backend Development Project <ul style="list-style-type: none">Led backend development for the implementation of a comprehensive system for class registrations.Utilized MongoDB and Express, ensuring robust connections and functionality.Oversaw CRUD operations and contributed to UI design using React and Material-UI.

CONTESTS & AWARDS

Mar 2024	Swift Student Challenge 2024 <ul style="list-style-type: none">Selected as one of 350 winners globally, recognizing exceptional innovation and technical proficiency in Apple technologies.
Sept 2023	HackMTY - Financial Analysis Project <ul style="list-style-type: none">Collaborated on the development of an AI-driven financial analysis project, focusing on the web application using React, PostgreSQL, and TensorFlow.

TECHNICAL AND SOFT SKILLS

- HTML, CSS, JavaScript, TypeScript, SwiftUI, MongoDB, GitHub, React, Prisma, Vue.js, Node.js, Docker, Express, Firebase, Flutter, VisionOS, Java, Sprint
- Soft Skills: Teamwork, Leadership, Problem-Solving, Adaptability, Empathy, Curiosity | English: B2