

Carlos Sebastián Jara Hernández

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Education

Escuela Superior de Cómputo (ESCOM - IPN)
B.S. in Artificial Intelligence Engineering

Mexico City
August 2024 - Present

Centro de Estudios Científicos y Tecnológicos No. 9 “Juan de Dios Bátiz”
Technician in Programming

Mexico City
August 2021 – July 2024

Experience

LearnQuest

Mexico City

Full-Stack Developer

2025

- Developed a gamified e-learning platform (Duolingo-style) for the UNAM entrance exam using Next.js, React, and TypeScript.
- Implemented a full gamification system including XP, leveling, daily streaks, and a hearts/lives mechanic using Zustand for state management synced to Supabase PostgreSQL.
- Integrated Google OAuth authentication and Row Level Security (RLS) with Supabase, enabling secure per-user progress tracking across devices.
- Designed a spaced repetition (SM-2) review system and multi-question-type quiz engine (multiple choice, fill-in-the-blank, ordering) with KaTeX math rendering and animated step-by-step solutions.

MindfulSpace

Mexico City

Full-Stack Developer

2025

- Developed a Progressive Web App (PWA) focused on emotional well-being and mental health using Next.js and Firebase.
- Implemented an intelligent chatbot integrated with the Gemini API for sentiment analysis and conversational support.
- Integrated authentication, real-time databases, and cloud storage using Firebase.
- Optimized user experience with a mobile-first approach and web accessibility.

Uxersii

Mexico City

Full-Stack Developer

August 2023 – August 2024

- Developed a Full-Stack application using Django and React to analyze and reduce food waste in Mexico City through data analysis.
- Implemented an artificial intelligence model for food detection and expiration date estimation, facilitating the classification of products nearing their expiration.
- Optimized the distribution recommendation system through data analysis, achieving a waste reduction of up to 25% in specific zones.
- Designed a responsive interface in React, reducing user interaction times by 30%.

Leadership and Achievements

Premio a los mejores prototipos de nivel medio superior
3rd place nationally

México
2024

- Received national recognition for the development of a technological prototype with social impact (Uxersii)

Skills and personal interests

Programming languages: JavaScript, TypeScript, C, Java, Python

Frontend: React, Next.js TailwindCSS, HTML, CSS

Backend: Django, Firebase, Google Cloud

Tools: Git, Github, Servidores linux basados en Ubuntu, SSH

Languages: Spanish (Native), English B2+ (technical and professional documentation), Korean (Basic – current learning)