Leonardo Corona-Garza

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Portfolio - umm-actually.com ↗
LinkedIn - umm-actually.com/linkedin ↗

EDUCATION

Tecnológico de Monterrey — Monterrey, Mexico
B.S. in Computer Science and Technology; GPA: 95.94/100 — *August 2021 - December 2025*

University of Naples Federico II — Naples, Italy
Apple Developer Academy — *September 2024 - June 2025*

EXPERIENCE

Software Engineer (Freelance Contract) — Monterrey, Mexico
Innovaction Gym — *January 2024 - July 2024*

Led a team of three in **agile software development**, building a **full-stack Next.js** web application for a COIL platform connecting **10+ universities**, and projected to reach 1,000 users in its first year.

- As a **team leader** and **product owner**, I managed & documented **requirements** with the client using SRSs.
- **Analyzed cost** with function points. Established the team's quotation for development and hosting.
- On the front end, **designed and implemented** UI & business logic for uploading and viewing educational posts.
- On the back end, added integration with Stripe's payment system and secure **Supabase object storage.**

Back End Developer (Freelance Contract) — Monterrey, Mexico
RT Conducción Integral — *April 2023 - August 2023*

Using **Django**, built the back end of an **IoT** application for Nuevo León's **water service company**, resulting in improved water delivery efficiency for small businesses, and data analytics for administrators.

- Designed, built and thoroughly documented the **REST API endpoints**, given a prototype of the app.
- Ensured **code quality** by adhering to PEP8 standards and Django's **MVC architecture**.
- Conducted **API and database tests** within the Django application using automated scripts.
- Designed a **secure role system** for API users, and corresponding **authorization policies** on endpoints.

RECENT WEB PROJECTS

- **dominoes.mx**: Developing and mantaining an online domino game using **SvelteKit** & **WebSocket** as a personal project with my father. I'm currently improving the **bot player algorithm** and optimizing for **mobile platforms**.
- **DEVOTION**: Developed a **Google**-integrated project management web application with **Angular** & **Django**, capable of tracking nested projects & tasks, aimed at elevating the ease of collaboration of student groups at Tec de Monterrey.
- **spotifyatlas**: Published a Python **PYPI package** for seamless interaction with **Spotify's web API**, simplifying data retrieval and programmatic interaction with music.

RECENT MOBILE & APPLE PROJECTS

- **Semitones**: Published an **instrument tuning** app for iOS. Winner of Apple's **Swift Student Challenge**. Powered by native frameworks: SwiftUI, UIKit, Accelerate, and CoreAnimation. Available now on the **App Store**.
- **Hear Me Out!**: Multiplayer debate party game, designed for **Apple TV** & **iPhone** devices. With Apple's native **MultipeerConnectivity**, players use their iPhone devices to interact with the TV. Available now on the **App Store**.
- **Aqualia**: Developing an app for intuitive insight on the water quality of Naples, Italy, utilizing **MapKit** & **Swift Charts**. Available on **TestFlight**. Currently working on **localization** & integration with official data sources.

LICENSES & CERTIFICATIONS

- **C2 English Proficiency**: Duolingo English Test
- **Cisco**: Cisco Networking Academy CCNA 1-3
- **Google**: Cybersecurity Professional Certificate
- **Google**: IT Support Professional Certificate

SKILLS

- **Languages**: Swift, Python, TypeScript, JavaScript, Objective-C, C++, C#, SQL, Matlab
- **iOS Development**: SwiftUI, UIKit, CoreAnimation, Core/SwiftData, MapKit, Accelerate, MultipeerConnectivity
- **Web Development**: SvelteKit, Django REST Framework, React, Next.js, Angular, WebSocket, Docker, AWS, Vercel, JWT, OAuth 2.0, Tailwind CSS
- **Other**: Bash, Cisco IOS, API Design, API Documentation, Data Modeling, Mobile UI/UX