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Education

Instituto Tecnológico y de Estudios Superiores de Monterrey (ITESM) Expected Graduation: 2026
B.S. in Computer Science and Technology GPA: 4.00 / 4.00 Monterrey, NL, Mexico

- **Relevant Coursework:** iOS Development (Swift & SwiftUI), Advanced Algorithms Analysis and Design, Object-Oriented Programming, Software Engineering, Multi-Agent Systems Modeling with Computer Graphics.

Honors and Awards

Swift Student Challenge Distinguished Winner Jun 2025
Apple Inc. Cupertino, CA

- Selected as a **Distinguished Winner** of the **Swift Student Challenge 2025**, an honor awarded to a small group of top global submissions.
- Invited to a **4-day immersive experience at Apple Park**, including attendance at the **WWDC25** special event in Cupertino, California.
- Developed **"Eyes,"** an iOS application focused on visual health, which gained **local media coverage** and led to television interviews highlighting its **technical design and social impact**.

Experience

iOS Developer Intern Dec 2024 – Present
EnviaFlores.com Monterrey, Nuevo León

- **Contributed** to the full **redesign and modernization** of the EnviaFlores.com iOS app, rebuilt entirely using **Swift** and **SwiftUI**, impacting an application with over **2M+ total downloads** and ranked **Top #13 in the Shopping category in Mexico**.
- **Implemented Clean Architecture (Data, Domain, Presentation)** combined with **MVVM**, improving **modularity, scalability, and maintainability** across complex product and checkout flows.
- **Developed reusable and modular SwiftUI components**, reducing **UI code duplication** and increasing development velocity across multiple screens.
- **Optimized product search performance** by analyzing **algorithmic complexity**, reducing redundant iterations and unnecessary data reads – improving execution efficiency and decreasing load times on high-traffic screens.

Projects

Eyes – Eye Health Monitoring App | *Swift, SwiftUI, Foundation Models, SwiftData, SwiftCharts, TipKit* | [App Store](#)

- **Released** a production iOS app focused on **eye health**, offering personalized insights and visual tracking.
- Built structured **SwiftData** models to manage eye exams and prescription history with persistent storage.
- Integrated **Foundation Models** to generate **context-aware educational content** and personalized vision insights.
- Implemented **Swift Charts** for interactive visualizations of vision changes over time.
- Used **TipKit** to enhance onboarding and feature discovery through contextual guidance.

Healthwind – Air Quality Monitoring App | *Swift, SwiftUI, MapKit, Swift Charts* | [TestFlight](#)

- Designed and developed an iOS app for the **Instituto Tecnológico y de Estudios Superiores de Monterrey**, enabling **real-time air quality monitoring** across Nuevo León, Mexico.
- Integrated data from **university and community sensors**, measuring **PM10, PM2.5**, humidity, and temperature.
- Applied **Clean Architecture with MVVM**, separating **Data, Domain, and Presentation layers** for scalability.
- Implemented an interactive **MapKit** map showing real-time sensor locations.
- Built **Swift Charts** visualizations to analyze historical pollutant trends.

Seed – AI-Powered Personal Finance App | *SwiftData, Swift Charts, Speech, Foundation Models, App Intents* | [App Store](#)

- Developed an iOS app for frictionless **income and expense tracking** using voice and natural language input.
- Designed a relational data model with **SwiftData**, defining separate **Transaction** and **Category** entities to support customizable and scalable financial tracking.
- Integrated Apple's **Speech** framework and **Foundation Models** to generate and categorize transactions from natural language input.
- Built interactive financial analytics with **Swift Charts**.
- Added receipt management via **VisionKit** document scanning.
- Enabled fast transaction entry using **App Intents, Siri, and Shortcuts**.

Community & Learning

Mentor, Programadores de Swift México – On-site Bootcamp (K-12) Oct 2025
Learning Design Center - SwiftTec México

- Mentor at the **Swift México On-site Bootcamp (K-12)**: shared my experience building iOS apps with **Swift/SwiftUI** for **elementary, middle, and high-school** students, encouraging them to join the **Swift Student Challenge** and to leverage **Apple** technologies to create **real-world impact**.

Workshop Instructor Sep 2025
Instituto Tecnológico y de Estudios Superiores de Monterrey (ITESM) Monterrey, N.L., México

- Taught a hands-on session to 5th-semester students: introduced **SwiftData** via a **CRUD** users app, covered **property wrappers**, showcased **iOS 26** design updates, and encouraged continuous Q&A for collaborative learning.

Technical Skills

Languages: Swift, C++, Python

Technologies & Frameworks: SwiftUI, Core ML, SwiftData, TipKit, MapKit, Swift Charts, GitHub, Postman, Figma.

Tools: Xcode, MVVM, Agile/Scrum, REST APIs, JSON.