# Andrés Gualberto Sánchez Guerrero

**Senior iOS Software Engineer**
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## Professional Summary

Senior iOS Engineer with 8+ years delivering high-availability mobile banking solutions (99.5% uptime) for major FinTech clients across Latin America. Expert in Swift, modern architectures (VIPER, TCA), and White Label solutions serving millions of users. Proven track record migrating legacy systems and leading technical initiatives under strict regulatory requirements.

## Technical Skills

- **iOS Development:** Swift 6 (Concurrency, async/await), SwiftUI, UIKit, Combine, XCTest, TCA (The Composable Architecture), VIPER, MVVM-C, Redux.
- **Platform Features:** Local Authentication (FaceID/TouchID), Apple Pay, CoreData, MapKit, Push Notifications, StoreKit.
- **Hybrid & Web:** React Native, Flutter (Dart), Cordova, JavaScript/TypeScript, Native Modules (Bridging).
- **DevOps & Tools:** CI/CD (Fastlane, Jenkins, GitHub Actions), AWS (CodeBuild, Pipeline), Xcode, SPM, CocoaPods, Charles Proxy, Postman.
- **Security & Monitoring:** ISO 27001 ISMS, OWASP, freeRASP, SSL Pinning, New Relic, Firebase.

## Professional Experience

iuvity (Todo1 Services Inc.) | Remote / Ecuador

**Senior iOS Engineer | Native Expert** (Nov 2020 -- Present) *Tech Stack: Swift, SwiftUI, Combine, VIPER/TCA, Cordova/RN Plugins, AWS, Firebase.*

- **Delivered High-Availability Banking Apps:** Engineered resilient mobile solutions for **Bancolombia** and regional banks, achieving **99.5% system availability** and meeting strict SLAs for millions of active users.
- **Led Architecture Modernization:** Spearheaded the migration from MVC/MVVM to scalable architectures (**VIPER, TCA, Redux**) and applied Protocol-Oriented Programming, significantly improving code testability and maintainability.
- **Accelerated Time-to-Market:** Implemented **Server-Driven UI** using Combine to render adaptive banking interfaces based on backend config, reducing release cycles for White Label products.
- **Hybrid Platform Integration:** Developed critical native plugins for Hybrid apps (Cordova, React Native) to enable secure **FaceID/TouchID** and **Apple Pay** features, ensuring seamless UX and FinTech compliance.

- **Incident Management:** Led technical response for critical production issues, maintaining a 95% on-time resolution rate under high-pressure scenarios.
- **App Store Expertise:** Managed the full release lifecycle for 10+ applications, successfully resolving complex App Store rejections and ensuring T&C compliance.

Vrije Universiteit Brussel | Brussels, Belgium

**MSc in Applied Computer Science (Educational Sabbatical)** (Sep 2018 -- Oct 2020)

iuvity (Todo1 Services Inc.) | Quito, Ecuador

**SSr iOS Developer** (Jun 2017 -- Aug 2018) *Tech Stack: Swift 4, Objective-C, VIPER, UIKit, Alamofire, TestFlight.*

- **Technical Leadership:** Acted as *de facto* team lead for a distributed team of providers, ensuring code quality and adherence to company standards while supporting product management.
- **Legacy Modernization:** Refactored legacy Objective-C codebases to Swift and updated UI layouts to support iPhone X form factors (**Safe Area**, AutoLayout).
- **Feature Delivery:** Developed core banking UI features for **Banistmo Panama** using VIPER and integrated complex RESTful services involved in transactional flows.

Bayteq Cia Ltda | Ecuador

**iOS Developer** (Sep 2015 -- Jun 2017) *Tech Stack: Objective-C, Swift, MapKit, CoreData, Fastlane, Jenkins.*

- **Agile Transformation:** piloted Agile methodologies for a 20-week Digital Bank project, successfully demonstrating improved velocity and delivery to the client.
- **Custom SDK Development:** Built a custom **seat selection SDK** for the **Supercines** app, handling complex grid logic and high-volume state management.
- **Secure Banking Features:** Implemented **FacePhi** identity verification and a Point-of-Interest module (Agencies/ATMs) using MapKit for **Banco Bolivariano**.
- **DevOps Implementation:** Established early CI/CD pipelines using **Fastlane** and **Jenkins** to automate build distribution to TestFlight.

## Education

**Vrije Universiteit Brussel** | Brussels, Belgium
**MSc in Applied Computer Science (Smart Cities)** (2018 -- 2020)
*Graduated with Distinction.*

**Universidad Técnica de Ambato (UTA)** | Ecuador
**BSc in Electronics and Communications Engineering** (2008 -- 2015)
*Graduated with honors -- Cohort's Top Student.*

## Certifications & Achievements

- **iOS Lead Essentials:** Essential Developer (In Progress).

- **Swift Concurrency:** Course by Antoine van der Lee.
- **Publication:** *Print server UI for real-time 3D printer image control* (IEEE Xplore, 2017).
- **Languages:** English (C1/Advanced), Spanish (Native), French (Basic).

- **Swift Concurrency:** Course by Antoine van der Lee.
- **Publication:** *Print server UI for real-time 3D printer image control* (IEEE Xplore, 2017).
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