# 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 mobile architectures (VIPER, TCA, Redux) and Clean Architectures using Protocol-Oriented Programming (POP), SOLID principles and Dependency Inversion. Proven track record of evolving legacy systems, implementing Server-Driven UI, and leading technical initiatives under strict regulatory requirements (ISO 27001) and PCI DSS. Master's degree in Applied Computer Science.

## Core Technical Skills

### iOS Native Development
Swift 6 (Concurrency, async/await) • SwiftUI • UIKit • Combine • CocoaTouch • XCTest • Swift Testing • CoreData • MapKit • Local Authentication (FaceID/TouchID) • Apple Pay • StoreKit • Push Notifications

### Architecture & Patterns
VIPER • TCA (The Composable Architecture) • Redux • MVVM-C (Clean) • MVP • Protocol-Oriented Programming (POP) • SOLID • GRASP • Dependency Injection • Feature Flags

### Hybrid & Cross-Platform
React Native • Flutter (Dart) • Cordova • Native Module Development • JavaScript • TypeScript • React

### Integration & APIs
RESTful Services • GraphQL (Apollo) • OIDC Authentication • URLSession • Alamofire • SSL Pinning

### DevOps & Security
Git • Fastlane • Jenkins • GitHub Actions • AWS CodeBuild/CodePipeline • freeRASP • OWASP • ISO 27001 ISMS • Charles Proxy • Xcode Instruments

### Monitoring & Analytics
Firebase (Analytics, Crashlytics) • New Relic • A/B Testing

## 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, Internationalization, 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.
- **Worked on Architecture Modernization:** Evolved from MVC/MVVM to scalable architectures (**VIPER, TCA, Redux**) and applied Protocol-Oriented Programming for SOLID principles compliance, significantly improving testability by 40% and reducing bug density.
- **Accelerated Time-to-Market:** Implemented **Server-Driven UI** for White Label products used by important financial institutions. Utilized Combine to render adaptive banking interfaces based on backend config, reducing feature deployment time by 60% and enabling centralized UI management across 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 using manual release and CI/CD pipelines. Successfully resolved complex App Store rejections and ensured yearly T&C compliance.
- **Security & Compliance:** Integrated Local Authentication (FaceID/TouchID), Apple Pay SDK, and freeRASP security features while ensuring ISO 27001 compliance. Built robust banking functionalities (payments, transfers, account management) meeting industry-level security standards.
- **Data-Driven Development:** Integrated Firebase for user behavior analysis and A/B Testing, and New Relic for performance monitoring and observability, enabling data-informed product decisions.
- **Hybrid Expertise:** Developed native plugins for Cordova and React Native using Swift, Objective-C, and JavaScript, serving as Native Expert for cross-platform teams. Achieved 95% deployment effectiveness through TDD and CI/CD practices.

*Note: Sep 2018 – Oct 2020: Completed Master's Degree in Belgium*

## 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:** Emerged as de facto team leader (as the only in house developer) 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 banking UI features for **Banistmo Panama** using UIKit and VIPER architecture. Successfully integrated Swift code into legacy Objective-C codebase while maintaining stability.
- **REST API Integration:** Implemented complex banking service integrations using Alamofire, ensuring reliable transaction processing and data synchronization.
- **Modernization Initiative:** Led migration to support iPhone X and iPhone Plus new layout paradigms, ensuring optimal UX across device generations.
- **Release Management:** Managed beta releases via TestFlight and App Store deployments and early attempts at CI/CD pipelines using Fastlane and Jenkins, coordinating with QA and stakeholders.

Bayteq Cia Ltda | Ecuador

**iOS Developer** (Sep 2015 -- Jun 2017) *Tech Stack: Objective-C, UIKit, Swift 3, MapKit, CoreData, Protocol-Oriented Programming, VIPER*

- **Agile Champion:** Led 20-week Agile transformation initiative for a Digital Bank project, demonstrating methodology benefits from conception to App Store release, resulting in client adoption of Agile practices.
- **Complex Feature Development:** Built **Supercines Cinema App** featuring custom seat selection SDK, PCI DSS-compliant payment integration, and CoreData persistence for offline functionality.
- **White Label Banking:** Developed White Label mobile banking solution for **Produbanco**, establishing reusable architecture patterns adopted in subsequent projects.
- **Security Implementation:** Integrated **FacePhi** identity verification SDK for **Banco Bolivariano**, ensuring secure account access while maintaining seamless user experience.
- **Location Services:** Developed Points of Interest module (Agencies/ATMs) using MapKit with custom clustering and routing features.

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## Education

**Vrije Universiteit Brussel** | Brussels, Belgium
**MSc in Applied Computer Science (Smart Cities)** (2018 -- 2020)
*Funded by the Ecuadorian Government Scholarship*
*Thesis: Minimalistic AI Architectures for Language Models – Research & Development using Python*
*Graduated with Distinction -- Program conducted entirely in English.*

**Universidad Técnica de Ambato (UTA)** | Ecuador
**BSc in Electronics and Communications Engineering** (2008 -- 2015) *Thesis: Print server UI for real-time 3D printer image control*
*Graduated with honors -- Cohort's Top Student.*

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## 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* | DOI: 7975957
- **Languages:** English (C1/Advanced), Spanish (Native), French (Basic).

## Key Strengths

- Troubleshooting complex production issues under time-critical SLA constraints.
- Translating business requirements into technical architecture and maintainable code.
- Effective communication with technical and non-technical stakeholders across all levels.
- Rapid adaptation to evolving technology stacks and client-specific requirements.
- Structured approach to technical documentation and knowledge transfer.