

ARMANDO HERRERA

Senior iOS Engineer

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PROFESSIONAL SUMMARY

Senior iOS Engineer with 8+ years building and shipping production iOS, iPadOS, and watchOS apps, backed by 20+ years in software engineering and technical leadership. Specializes in SwiftUI, Swift Concurrency, and clean MVVM architecture for data-intensive enterprise apps — currently building real-time energy-operations and market-data features for the energy-trading sector. Strong across the full delivery cycle: architecture, secure authentication (Microsoft Entra ID / MSAL), backend and data-platform integration, performance optimization, and App Store / Google Play release pipelines. Also delivers cross-platform on Android (Kotlin, Jetpack Compose) and operates with strong product sense, owning features from requirements through release.

CAREER HIGHLIGHTS

- 8+ years building production iOS / iPadOS / watchOS apps; 20+ years across the full software development lifecycle.
- Current focus: real-time energy-operations and market-data mobile features — BESS asset monitoring, power-market analytics, and live data visualization.
- Lead-level ownership of mobile delivery: architecture, secure authentication, enterprise API and data-platform integration, performance optimization, and App Store / Google Play release management.
- Cross-platform delivery on iOS (SwiftUI) and Android (Kotlin, Jetpack Compose), with backend-adjacent work on AWS Lambda and Snowflake integrations.
- Proven technical leadership — has led mobile teams of up to 8, mentored engineers and interns, and set architecture and code-quality standards. Bilingual (English / Spanish).

TECHNICAL SKILLS

Languages: Swift, Objective-C, Kotlin, Java, SQL, JavaScript, C#

iOS / Apple Platforms: SwiftUI, UIKit, Swift Concurrency (async/await), Combine, Core Data, SwiftData, GRDB, Swift Charts, URLSession, APNs / Push Notifications, watchOS, App Extensions, Core Location, MapKit, Core Bluetooth, XCTest, Instruments

Architecture & Practices: MVVM, MVC, Clean Architecture, SOLID, feature-based modularization, dependency injection, real-time UI / live data polling, structured logging, performance diagnostics, TDD, code reviews

Authentication & Security: Microsoft Entra ID / MSAL, token-based API authorization, Amazon Cognito, Multi-Factor Authentication (MFA), Keychain

Android: Kotlin, Java, Jetpack Compose, Room, Gradle (product flavors, signing configs), Android Studio

Backend, Cloud & Data: RESTful APIs, SOAP, JSON/XML, AWS Lambda, AWS SAM, Snowflake, Redis, AVEVA Data Hub, YES Energy, Change Broker, API contract design, Postman, Swagger

Databases: Core Data, SwiftData, GRDB, SQLite, SQL Server, MySQL, Oracle, Firebase

CI/CD & Release: Xcode Cloud, Bitrise, TestFlight, Firebase App Distribution, App Store Connect, Google Play Console, Firebase

Version Control & PM Tools: Git, GitLab, GitHub, GitKraken, Bitbucket, Jira, Confluence, Smartsheet, Crashlytics, Agile / Scrum

AI-Assisted Development: Claude Code, GitHub Copilot, Codex; agentic coding workflows for implementation, refactoring, code review, and test generation

AI / ML (developing): Python, Pandas, Jupyter Notebooks, machine learning fundamentals and applied projects

Additional / Earlier Technologies: .NET, ASP.NET, React, HTML/CSS, Windows Server / IIS, Genexus

PROFESSIONAL EXPERIENCE

Senior iOS Engineer — Active Tek (Contract via Korn Ferry) Feb 2023 – Present

Client: Mercuria • Product: MAP-C • Austin, TX

- Senior engineer on MAP-C, Mercuria's enterprise mobile platform for energy operations — delivering real-time market data, energy-asset monitoring, and commodity analytics to internal and external users across iOS, iPadOS, watchOS, and Android.
- Built real-time monitoring for BESS (Battery Energy Storage System) assets, including live Net Power / UDSP updates, using live data polling and real-time SwiftUI updates.
- Developed data-visualization features with Swift Charts — asset comparison tables, metric dashboards, RTM offer curve charts, and a Net Load Forecast vs Actual view.
- Architected the iOS app in SwiftUI with MVVM, async/await, and Combine, and optimized SwiftUI views and live-streaming data pipelines for performance.

- Integrated the apps with backend services — AVEVA Data Hub, Change Broker, YES Energy market data, Snowflake-backed AWS Lambda APIs, Redis-backed services, and internal REST APIs — handling API response parsing, data mapping, and structured logging.
- Implemented secure authentication with Microsoft Entra ID / MSAL and token-based API authorization across iOS and Android.
- Contributed backend-adjacent work — reviewing and updating AWS Lambda functions, SAM templates, and Snowflake query integration patterns in GitLab repositories, and aligning mobile and backend API contracts; used mock-driven development to build features ahead of backend readiness.
- Managed iOS and Android release preparation — App Store, Google Play Console, Firebase App Distribution, and APNs push notifications — through Xcode Cloud and GitHub-based workflows.

Tech: Swift, SwiftUI, async/await, Combine, Core Data, Swift Charts, Kotlin, Jetpack Compose, MVVM, REST/JSON, MSAL / Microsoft Entra ID, AWS Lambda, Snowflake, Redis, AVEVA Data Hub, YES Energy, Xcode Cloud, GitHub, GitLab.

Senior iOS Developer — Active Tek (Contract via Korn Ferry) Nov 2021 – Jan 2023

Client: HCSS • Product: MyField

- Led iOS development of MyField, a workforce time-tracking app for the construction sector that captures daily hours, lunch breaks, skills, inspections, and submitted hours per employee by day, week, and month.
- Built the app natively in SwiftUI using the MVVM pattern, with GRDB for local data management.
- Owned the continued growth, evolution, and maintenance of the app, and authored internal unit tests for core logic.
- Managed Dev, Staging, and Production release tracks to the App Store using Bitrise and Xcode Cloud, and instrumented Crashlytics for production crash tracking and triage.
- Supported other teams through code reviews and pair-programming sessions with interns and new developers.

Tech: Swift, SwiftUI, Objective-C, GRDB, Core Data, MVVM, REST/JSON/XML, Bitrise, Xcode Cloud, Crashlytics, Postman, Jira, GitHub, GitKraken.

Lead iOS Developer — PM Group Jan 2021 – Nov 2021

Client: PMS (IT consulting) • Texas / Mexico City

- Led a team of 3 developers and 1 designer — owning task allocation, mentoring, code standards, issue resolution, and architecture design.
- Delivered Egesio, a corporate health system that surfaces employee health indicators; the iOS app connects to a wearable bracelet over Bluetooth Low Energy (BLE), managing the connection in-app.
- Built native iOS apps in SwiftUI with the MVVM pattern and Core Data, and integrated RESTful JSON / XML backend services.
- Analyzed requirements and maintained existing client applications, delivering fixes, new features, and improvements.

Tech: Swift, Objective-C, SwiftUI, MVVM, Core Data, BLE (Bluetooth Low Energy), REST/JSON/XML, Postman.

CTO & iOS Developer — Audita Dec 2016 – Dec 2020

Cloud-based digital checklist startup • Guadalajara, Mexico

- Led the engineering team building and maintaining the iOS and Android apps that were the core product, serving 23 business and government clients across Jalisco, Mexico.
- Delivered the product mission of replacing paper-based workflows with digital checklists, providing clients with near real-time operational outputs.
- Built native iOS apps in Objective-C and Swift with Core Data, native Android apps in Java and Kotlin, and REST / SOAP web services in .NET.
- Managed a team of 5 covering day-to-day operations and client support; recognized with 1st place for Best Innovation Company in Guadalajara by Coparmex.

Tech: Swift, Objective-C, Kotlin, Java, Core Data, .NET, REST/SOAP web services, SQL, MySQL, Windows Server, Android Studio.

Full Stack Developer (iOS & Android) — ITDS Consulting Corporation Dec 2010 – Dec 2016

Client: Cinépolis • Software consulting firm

- Led a team of 7 developers and 1 designer delivering end-to-end projects — owning task allocation, mentoring, code standards, and architecture design.
- Contributed to 10+ native iOS and Android apps aimed at increasing sales, productivity, and cost savings for clients across multiple geographies and time zones.
- Served as lead developer on Cinépolis OPS, an operations app rolled out across all client locations — Mexico, Latam (Colombia, Brazil, Argentina, Peru), USA, Spain, and India — supporting 2,000+ simultaneous users and localized into Portuguese, Spanish, and English.
- Migrated existing applications from Objective-C to Swift; built supporting .NET web portals and REST / SOAP web services.

Tech: Objective-C, Swift, Java, Kotlin, Core Data, .NET, REST/SOAP web services, SQL Server, Oracle, MySQL, Android Studio, Genexus.

.NET Developer / IT Project Manager — CDA May 2007 – Dec 2010

Consultant and Applications Development • Client: KPMG Mexico

- Managed a 14-person team supporting KPMG Mexico across software development, IT support, networks, and administrative functions.
- Planned and implemented Agile methodologies across front- and back-office functions including IT, Marketing, Sales, HR, Finance, and Procurement.

- Built .NET web portals and developed REST and SOAP web services in Visual Studio; created integrations between PeopleSoft and internal .NET portals.

Tech: .NET, REST/SOAP web services, SQL Server, Oracle, MySQL, Windows Server, Genexus, PeopleSoft, Visual Studio.

EDUCATION & CERTIFICATIONS

B.S., Computer Systems Engineering 2003

Technological University of Mexico (UNITEC), Mexico City

Post-Graduate Certificate, Artificial Intelligence & Machine Learning 2025

The University of Texas at Austin (Great Learning)

Applied AI / ML to real-world projects including FoodHub data analysis, Personal Loan Prediction, ReneWind (predictive maintenance), and a Medical Assistant / RAG system.

LANGUAGES

English (Professional) • Spanish (Native)