

# WILVER MUÑOZ MORENO

Tech Lead & Senior Mobile Engineer | iOS (Swift) · Android (Kotlin) · Flutter · KMP | On-device AI & LLM Integration

Bogotá, Colombia · +57 304 611 9142 · wilvermunozm@gmail.com

[LinkedIn](#) · [GitHub](#) · [wilvermunoz.live](http://wilvermunoz.live)

## PROFESSIONAL PROFILE

Tech Lead and Senior Mobile Engineer with 14 years building software used by millions of users in fintech, payments, retail, and healthtech across LATAM and the US. Over the past 4 years I have led teams of 8+ people — hiring, technical interviews, and ownership of the decisions that shape the entire product, always building alongside the team and the stakeholders.

My main strength is native mobile at scale: iOS (Swift/SwiftUI) and Android (Kotlin/Jetpack Compose), plus shared codebases with Kotlin Multiplatform (KMP) and Flutter. My current focus is bringing AI to mobile products where it truly improves them — both on-device (Apple Foundation Models, Core ML) and through LLM APIs (OpenAI, Anthropic Claude, Google Gemini). Native platforms receive first-class AI support before anyone else, and few engineers combine senior mobile judgment with real AI implementation.

All of this rests on a solid full-stack foundation: 10+ years of Python (FastAPI, Django) and Node.js on the backend, React/Next.js/Angular on the front end, and AWS/Linux underneath. As a tech lead, being comfortable on both sides of the system lets me design AI features from the on-device model to the service behind it, not just the mobile layer.

**Domain areas:** Fintech (digital wallets, mobile banking, payments, antifraud) · E-commerce/retail at scale (millions of users, tens of thousands of daily transactions) · Foodtech (real-time POS) · Healthtech with on-device AI · Mobility.

## TECHNICAL STACK

**Mobile Native:** Swift, SwiftUI, UIKit, Kotlin, Jetpack Compose, Coroutines, Flows

**Cross-Platform:** Kotlin Multiplatform (KMP/KMM), Flutter, Dart

**AI Integration:** OpenAI API (GPT-4/4o), Anthropic Claude, Google Gemini, Apple Foundation Models (on-device), Core ML, prompt engineering, RAG, hybrid cloud/on-device architecture, agents with LLMs

**Backend:** Python (FastAPI, Django, Flask), Node.js (Express, NestJS)

**Web Frontend:** React, Angular, Next.js, Astro, TypeScript, JavaScript

**Cloud & DevOps:** AWS (EC2, S3), Firebase, Supabase, Docker, GitHub Actions, Fastlane, CI/CD, Linux

**Architecture:** Clean Architecture, MVVM, MVI, VIPER, SOLID, Repository Pattern, modular design

**APIs & Data:** REST, GraphQL, Apollo, Adobe Commerce / Magento, PostgreSQL, MySQL, Firestore

**Payments:** Stripe, PayPal, MercadoPago, native Magento gateways, antifraud integrations

## FEATURED PROJECTS

Apps in production that I have led or contributed to directly:

- **Fintech & payments:** Yape Bolivia (wallet, native iOS) · Ueno Bank Paraguay (digital banking, KMP) · Tigo Money (mobile money LATAM, Flutter)
- **Retail & e-commerce:** Farmacias del Ahorro (~9M registered users, native iOS+Android) · Beauty MX (USA, Flutter) · Super 99 (Panama, green-field native iOS+Android)
- **Healthtech with on-device AI:** Viinder Connect (fitness with hybrid AI assistant, native iOS+Android)
- **Foodtech:** Robinfood (5K+ daily orders at peak)
- **Mobility:** Abdu Conductor (ride-sharing, built end-to-end as the sole mobile developer)

## PROFESSIONAL EXPERIENCE

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### YapeMar 2026 – Present

*Tech Lead & Senior Mobile Engineer · iOS / KMP / Flutter / PythonRemote*

- Lead the development of scalable and robust e-commerce mobile apps used by millions of users in production, built natively in Swift (SwiftUI) and Kotlin (Jetpack Compose).
- Take ownership of strategic technical decisions alongside product and stakeholders, balancing user experience and business goals; mentor mobile developers toward best practices and technical growth.
- Coordinate cross-functional teams (mobile, UX/UI, QA, and backend), delivering quality releases under demanding timelines.
- Design and implement modern mobile architectures (MVVM, MVI, Clean Architecture, VIPER) based on SOLID principles.
- Lead the implementation of secure payment gateways with antifraud validations and custom checkout systems.
- Integrate multiple backend services via GraphQL and REST APIs, focused on high performance and low resource consumption.
- Integrate key modules: inventory management, shipment tracking, dynamic promotions, and push notifications.
- Develop backend services in Python (FastAPI) that provide end-to-end support to the mobile apps.
- Build AI features integrating LLM APIs (OpenAI, Google Gemini, Anthropic Claude): processing health and mobility data to detect high-demand zones and peak patterns, and an AI fitness coach powered by the user's training and nutrition data.

### ueno bank S.A.Jul 2025 – Mar 2026

*Senior Software Engineer, Full-Stack Mobile · Flutter / Node.js / NestJSParaguay · Remote*

- Senior Full-Stack Mobile Engineer on the digital banking team at Ueno Bank (Paraguay), building the app that 50,000+ users trust for payments, transfers, and accounts.
- Built critical features of the banking app in Flutter and native Swift, applying modular architecture and MVVM with Bloc and Riverpod to keep the codebase scalable and testable as the product grew.
- Built and maintained the backend services in Node.js/NestJS under a microservices architecture (BFF), keeping the mobile and service layers evolving consistently — an advantage of owning both sides of the stack.
- Applied fintech-grade production practices: secure handling of sensitive data, robust state and error management, and audit- and compliance-ready code in a regulated environment.
- Code review, architecture mentoring, and optimization of the existing codebase.

### OMNI.PRO

**Feb 2023 – May 2025**

*Tech Lead & Senior Software Engineer · Mobile / Backend / AI IntegrationBogotá · Remote*

- Led and contributed to the development of scalable and robust e-commerce mobile apps used by millions of users in production, built in native ecosystems (Kotlin, Swift) with Jetpack Compose and SwiftUI.
- Coordinated cross-functional teams (mobile, UX/UI, QA, and backend), ensuring quality deliveries under demanding timelines.
- Designed and implemented modern mobile architectures based on SOLID, MVVM, MVI, MVC, Clean Architecture, and VIPER principles.
- Integrated multiple backend services via GraphQL and REST APIs, ensuring high performance and low resource consumption.
- Led the implementation of secure payment gateways (including antifraud validations) and custom checkout systems.
- Integrated key modules such as inventory management, shipment tracking, dynamic promotions, and push notifications.
- Managed communication between the mobile apps and Adobe Commerce (Magento) as the main backend platform, with complementary integrations and APIs in Python (FastAPI, Django, Flask).
- Defined code quality standards, automated testing, and continuous review (CI/CD).
- Actively participated in strategic decision-making alongside product and stakeholders, always focused on user experience and business goals.
- Mentored mobile developers, fostering best practices and technical growth within the team.

## **RobinFoodMay 2021 – Feb 2023**

Senior Software Engineer · Software Architect

Bogotá · Remote

- Built native mobile apps in Kotlin (Jetpack Compose) and Swift (SwiftUI), ensuring high performance, modularity, and scalability.
- Contributed to cross-platform projects in Flutter, aimed at accelerating internal releases and proofs of concept (PoCs).
- Integrated REST and GraphQL APIs for efficient communication with backend services, supporting operations such as order creation, payment processing, real-time tracking, and dynamic promotions, with backends in Python (Django, FastAPI, Flask).
- Consumed and integrated cloud services, particularly Firebase (Auth, Firestore, Analytics, Remote Config, Crashlytics) for features such as authentication, metrics, and remote content management.
- Implemented clean architecture practices, layer separation (UI, domain, data), and patterns such as MVVM and Repository Pattern.
- Collaborated with backend, product, and QA teams in an agile (Scrum) environment, focused on CI/CD, automated testing, and incremental deployment.
- Delivered key integrations for the foodtech industry, including:
  - Real-time order management systems (POS)
  - Payment processors
  - Loyalty and rewards platforms

## **MedicappsaludSep 2018 – May 2021**

Full-Stack Developer · React / Node.js / Android / iOS / Flutter

Colombia

- As a full-stack developer, I worked on building modern, scalable, and user-centered web and mobile applications.
- On the frontend, I used React, Angular, and TypeScript, with solid practices such as modular architecture, testing (Jest), and good accessibility and performance standards.
- On the backend, I developed APIs with Node.js (Express, NestJS) and Python (FastAPI), applying SOLID principles, secure authentication (JWT/OAuth), SQL/NoSQL database integration, and documentation with Swagger. I also worked with REST and GraphQL APIs.
- On mobile, I built cross-platform and native apps with Flutter, Kotlin + Jetpack Compose (Android), and Swift + SwiftUI/UIKit (iOS), integrating features such as biometric authentication, push notifications, native animations, and patterns such as MVVM.
- Notable tools and practices: Git, Docker, CI/CD (GitHub Actions, Fastlane), Firebase, Apollo, and work under agile methodologies (Scrum/Kanban).

## **CiencuadrasMay 2015 – Aug 2018**

Lead Full-Stack Developer

Bogotá, Colombia

Full Stack developer (Android, Backend, web frontend)

- Activities: Development and maintenance for the ciencuadras.com website using tools and languages such as PHP (YII 2), JAVASCRIPT (ANGULAR, jQuery, Ajax, Native); administration and monitoring of AWS servers (EC2, S3); development of real estate management websites (JAVA, JSF, HIBERNATE, CDI, SPRING, EJB, JPA, POSTGRES, MYSQL, JBOSS); development of WEB SERVICES (REST, NUSOAP).
- Skills: Mobile Application Development.

Lead Developer (FullStack)

- May 2015 – Aug 2018 · 3 years 4 months.
- Activities: Development and maintenance for the ciencuadras.com website using tools and languages such as PHP (YII 2), JAVASCRIPT (ANGULAR, jQuery, Ajax, Native); administration and monitoring of AWS servers (EC2, S3); development of real estate management websites (JAVA, JSF, HIBERNATE, CDI, SPRING, EJB, JPA, POSTGRES, MYSQL, JBOSS); development of WEB SERVICES (REST, NUSOAP).

## Freelance Aug 2013 – May 2015

Full-Stack Web Developer · Independent

Remote

- Development of websites and online stores (MAGENTO, PRESTASHOP, WORDPRESS, LARAVEL, JAVA, JSF, HIBERNATE, CDI, SPRING, EJB, JPA, POSTGRES, MYSQL, JAVASCRIPT, ANGULAR, CSS, BOOTSTRAP, FOUNDATION).
- Development of WEB SERVICES (REST, SOAP).
- Development of mobile applications (IONIC, ANDROID).
- All developments were versioned with GIT using GitLab and Bitbucket as repositories.
- As an independent developer, I had to handle the deployment of the work delivered, based mainly on virtualization such as Amazon AWS or Digital Ocean, installing and configuring all necessary services from scratch according to the language or tools used in the development.

## Bakia S.A. Aug 2012 – Aug 2013

Full-Stack Web Programmer

Bogotá, Colombia

- Development of websites mainly in PHP for the backend, MYSQL databases, and the front end with pure HTML, CSS, and JAVASCRIPT; I also developed websites based on Joomla, going as far as editing the CMS core itself, supported Android app development depending on the workload, and carried out the research, analysis, and planning of a system.

## Promacompack Ltda Feb 2012 – Jul 2012

Intern · Systems Analyst (Development and Support)

Colombia

- Responsible for the company's technology area: on-site support to staff, website administration (PHP), and development of a desktop application for inventory management.

## CONTINUOUS LEARNING & SELF-TAUGHT SPECIALIZATION

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Continuous, self-taught learning, complemented with specialized online courses (Udemy, official platforms). Self-taught stacks applied in production with real clients:

- **Currently studying (2026):** Apple Foundation Models, advanced integration of generative AI APIs into digital products, and agentic architectures with LLMs.
- **Mobile Native:** Swift, SwiftUI, UIKit (Apple); Kotlin, Jetpack Compose (Google); Kotlin Multiplatform (KMP/KMM).
- **AI / GenAI:** OpenAI APIs, Anthropic Claude, Google Gemini, prompt engineering, RAG patterns, on-device inference.
- **Backend & Frontend:** Python (FastAPI, Django, Flask), Node.js, React, Angular, Next.js, Astro.

## EDUCATION

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### Professional Technician in Systems and Telecommunications

2011 – 2012

Fundación Universitaria San Mateo · Specialty: Software Development / Programming

## LANGUAGES

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**Spanish** — Native

**English** — B2, Working Proficiency · fluent reading and writing, conversational

## SOFT SKILLS

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Technical leadership · Effective communication · Systems thinking · End-to-end ownership · Mentoring · Teamwork · Decision-making under uncertainty · Continuous learning