Tomás Pereira Junior Mobile Engineer

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PROFILE SUMMARY

- **Junior Mobile Engineer** with **2 years** on a **language learning app** used by millions, shipping **streak and lesson features** on both the iOS and Android apps every week.
- Builds with **Kotlin** and Swift, **Jetpack Compose** and SwiftUI, a shared **Kotlin Multiplatform** module, Room for offline data, and Maestro, JUnit and XCTest for tests.
- Growing in **shared Kotlin code**, **offline lesson sync** and **crash triage** on older Android phones, using Crashlytics data and the team's weekly release train.
- Works with **2 senior mobile engineers**, a **product designer**, a learning scientist and QA on the streaks squad, from the feature spec to the release go/no-go.
- Keeps the squad's **Maestro test list** up to date, writes the release notes for streak features, and pairs with new interns on their first Compose screen.

TECHNICAL SKILLS

Languages:	Kotlin, Swift, Java (reading), Python (scripts)
iOS & Android UI:	Jetpack Compose, SwiftUI, Material 3, VoiceOver, TalkBack
Cross-Platform & Shared Code:	Kotlin Multiplatform, kotlin.test
Architecture & Concurrency:	MVVM, Kotlin Coroutines, Kotlin Flow, Hilt
Data & APIs:	REST APIs, Room, Core Data, Retrofit
Testing & CI/CD:	JUnit, XCTest, Maestro, Firebase Test Lab, GitHub Actions
Release & Monitoring:	Firebase Crashlytics, Firebase Remote Config, Google Play Console, App Store Connect

EDUCATION

Carnegie Mellon University — **B.S. in Computer Science** — Pittsburgh, PA · Aug 2020 to May 2024

WORK EXPERIENCE

Duolingo — **Software Engineer, Mobile** — Pittsburgh, PA · Aug 2024 to Present

- Built the **streak repair screen** in **Jetpack Compose** and **SwiftUI** from one spec, shipped on both apps in the same weekly release under senior review, and used by **over 2 million learners** in its first month.
- Moved the streak date logic into a shared **Kotlin Multiplatform** module with kotlin.test cases, replacing separate Swift and Kotlin versions and cutting time zone streak tickets from 11 a week to **2**.
- Added an offline queue in **Room** for lessons finished without signal, synced on reconnect with retries, cutting support tickets about lost lesson progress by **37%**.
- Fixed the top 3 **Crashlytics** crash clusters in the Android lesson player on Android 9 and 10, raising crash-free users on those versions from 99.1% to **99.6%**.
- Wrote **Maestro** flows for lesson start and streak repair that run nightly on both apps on Firebase Test Lab, catching **4 release blockers** on older phones before submission.

PNC — **Mobile Engineering Intern** — Pittsburgh, PA · Jun 2023 to Aug 2023

- Moved **4 screens** of the bank's Android app to **MVVM** with Hilt under a senior engineer's review, with unit tests that raised that module's coverage from 22% to **61%**.
- Put the new card controls screen behind a **Firebase Remote Config** flag and helped run its staged Google Play rollout, which reached all users in **3 weeks** with no hotfix.
- Wrote a Gradle check that caught missing Spanish strings in CI before each build, saving the Android team about **3 hours** of manual checking per release.