PHAM HOANG PHUOC DUY

Senior Android Engineer

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Summary

Senior Android engineer specializing in cross-platform SDK development and performance optimization for resource-constrained devices. Expert in Kotlin Multiplatform, Jetpack Compose, and Clean Architecture with proven track record of building scalable solutions used by millions.

Technical Skills

Languages & Core: Kotlin, Java, Kotlin Multiplatform, Coroutines, Node.js.
Android: Jetpack Compose, Android Framework, Coroutines, MVI/MVVM, Hilt, Room, Retrofit, Ktor.
Specialized: WearOS, Android Automotive, Protobuf, JNI, UI Testing (Espresso).
Tools & CI/CD: GitHub Actions, CircleCI, Docker, Maven Central Publishing.

Professional Experience

What3words Oct. 2023 – Present
Senior Android Developer *Ho Chi Minh City*

- **Technologies:** Kotlin, Android SDK, Kotlin Multiplatform, Coroutines, Jetpack Compose, Android for Cars App Library, Dagger Hilt, Clean Architecture, UI Testing, GitHub Actions.
- Led the migration of the what3words Android App (**10M+ downloads**) to MVI and Jetpack Compose. Integrated a custom Map Component to handle hundreds of markers, cutting **20,000 lines of legacy code** and boosting UI performance by **82%** (Macrobenchmarked)
- Introduced Kotlin Multiplatform (KMP) by architecting shared internal libraries. Led a **3-person team** from zero to production, unifying business logic and speeding up feature delivery for both Android and iOS.
- Built the AI Voice and AI Chat features for the Pro 5.0 release, directly contributing to a **six-figure ARR** from Pro subscriptions.
- Built production Android Automotive apps deployed to major automotive suppliers including Pleos, Visteon, and Harman using Jetpack Compose and Cars App Library.

Freelancer Mar. 2025 – Dec. 2025
WearOS Engineer *France, Remote*

- **Technologies:** WearOS, Jetpack Compose, Ktor, MVVM, Hilt
- Designed and independently developed a WearOS application for dental clinics to streamline daily operations for dentists and assistants.
- Owned complete product lifecycle from requirements gathering and architecture design through development, testing, and deployment.

Fossil Vietnam May 2021 - Sep. 2023
SDK Developer *Ho Chi Minh City*

- **Technologies:** Android Framework, Java, Kotlin Multiplatform, Protobuf, JNI, Bluetooth Low Energy.
- Built a next-generation Wearables Framework from scratch (inspired by Android WearOS) for Fossil's smartwatch product line.
- Architected and owned core framework modules including SensorManager, HealthServiceManager, and LocationManager, serving as foundation for all smartwatch applications.
- Worked closely with the firmware team and achieved breakthrough performance optimization, enabling the framework to run on devices with only **5MB RAM** while supporting **12 concurrent applications** through aggressive memory management and execution efficiency improvements.
- Developed cross-platform SDK using Kotlin Multiplatform enabling Android and iOS developers to interact with Fossil smartwatches via Bluetooth, eliminating need for duplicate platform-specific codebases.

Education

University of Science, VNU-HCMC 2017 - 2021
Bachelor of Software Engineering

- Founder of the University of Science Astronomy Club (USAC)

Personal Projects

ShotClock — Screenshot Auto Cleanup App 2026

Personal project *Play Store*

- Architected and shipped a privacy-first utility app that leverages Android Foreground Services and ContentObserver for real-time screenshot detection.
- Implemented comprehensive automated testing (Compose UI Tests, Espresso) and established a CI/CD pipeline (GitHub Actions) for automated Play Store release management.
- Owned the full product lifecycle: from UI/UX design and architecture to Google Play policy compliance and post-launch iteration.

SunVerta Translation App 2025

Pet project *github.com/pduy99/HeliosTranslator*

- Comprehensive translation application built with Kotlin Multiplatform (KMP) demonstrating cross-platform architecture and modern Android development practices.
- Implemented multiple translation modes: text translation, real-time camera OCR translation, and bidirectional conversation translation.