

PHAM HOANG PHUOC DUY

ANDROID ENGINEER

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SUMMARY

I am a passionate and results-driven Android engineer with expertise in building high-performance applications and SDKs. Skilled in Kotlin, Jetpack Compose, and Kotlin Multiplatform, with a strong focus on Clean Architecture and modern development practices. Proven ability to optimize performance, improve code maintainability, and develop scalable solutions used by millions. Thrives in fast-paced environments and enjoys tackling technical challenges.

SKILLS & INTERESTS

Programming Languages: Kotlin, Java, Node.js

Frameworks and Libraries: Android Framework, Jetpack Compose, Kotlin Multiplatform, Coroutines, Retrofit, Ktor, Hilt, Protobuf.

Tools: GitHub Actions, CircleCI, UI Testing.

Languages: Native Proficiency in Vietnamese, Working Proficiency in English.

Interests: Astronomy, Chess.

PROFESSIONAL EXPERIENCE

What3words

Oct. 2023 – Present

Senior Android Developer

Ho Chi Minh City

- **Technologies:** Kotlin Android, Kotlin Multiplatform, Coroutines, Jetpack Compose, Android for Cars App, Room, Dagger Hilt, Clean Architecture, UI Testing (Espresso, Jetpack Compose Testing), GitHub Actions, CircleCI
- Contributed to the what3words Android App with **over 10M+ downloads**.
- Migrated legacy architecture to modern MVI and XML-based UI to Jetpack Compose, improving maintainability and increasing new feature development speed **by 30%**.
- Developed public and internal libraries facilitating the integration of what3words technologies with **hundreds of downloads monthly** on Maven Central: Map Component, OCR Component, Android what3words wrapper.
- Led the architecture and development of **Map Component v2** with Jetpack Compose (on Google Maps & Mapbox), enabling smooth rendering of **hundreds of zoom-responsive markers** and improving performance by **50%** over the XML-based version.
- Built Android Automotive apps using Jetpack Compose and the Cars App Library, which are used by major brands like Mitsubishi, Honda, VinFast, and others.

Confidential (Client under NDA)

Mar. 2025 - Present

Freelance WearOS Developer

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 the full product lifecycle: requirements gathering, architecture design, development, testing, and deployment.

Fossil Vietnam

May 2021 - Sep. 2023

SDK Developer

Ho Chi Minh City

- **Technologies:** Android Framework, Java, Kotlin Multiplatform, Coroutines, Retrofit, RealmDB, Protobuf, Design Patterns, JNI (JNI), Bluetooth
- Participated in building a new Wearables Framework (inspired by Android WearOS) from scratch for the next generation of Fossil smartwatches
- Spearheaded the development and ownership of the core modules of the framework, including SensorManager, HealthServiceManager, and LocationManager.
- Optimized memory and execution efficiency, enabling the framework to run on smartwatches with only 5MB of RAM, supporting up to 12 apps simultaneously.
- Developed an SDK that enables Android and iOS developers to interact with Fossil smartwatches via Bluetooth.

- Implemented the SDK using Kotlin Multiplatform, allowing it to compile and execute on both Android and iOS. This approach reduced the overhead of maintaining separate codebases for multiple platforms.

SaiGon Smart

Dec. 2020 - Mar. 2021

Part-time Android Developer

Ho Chi Minh City

- Developed and published small-scale Android applications for clients while studying at university.

EDUCATION

University of Science, VNU-HCMC

2017 - 2021

Bachelor of Software Engineering

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

PERSONAL PROJECTS

SunVerta Translation App

2024

Pet project

github.com/pduy99/HeliosTranslator

- SunVerta is a comprehensive translation application built with Kotlin Multiplatform (KMP), offering multiple translation methods.
- Key functionalities:
 - * Text Translation: Quick and accurate translations.
 - * Image Translation: Instant OCR and translation using your camera.
 - * Conversation Translation: Real-time translation for natural conversations.