

# PHAM HOANG PHUOC DUY

ANDROID ENGINEER

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## SUMMARY

I am a passionate and results-driven Android engineer with expertise in the building of 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, Coroutines, Retrofit, Hilt, Protobuf

**Tools:** CI/CD, UI Testing

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

**Interests:** Astronomy, Chess

## PROFESSIONAL EXPERIENCE

### What3words

Oct. 2023 – Present

*Android Developer*

*London, UK (Remote)*

- **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 core what3words Android application with over 10M+ downloads and hundreds of thousands of daily users
- Migrated legacy MVC architecture to modern MVVM, improving maintainability and enabling seamless integration of reactive programming patterns
- Redesigned and migrated UI from View-based implementation to Jetpack Compose, reducing UI tech debt and increasing development speed
- Google Play: [what3words Android App](#)
- Developed public and internal libraries facilitating the integration of what3words technologies using up-to-date technologies and architectures: [Map Component](#), [OCR Component](#), [Android what3words wrapper](#)
- Lead architecture and performance improvements for the new Jetpack Compose-based Map component (on top of Google Maps and MapBox)
- Built Android Automotive apps using Jetpack Compose and Cars App Library which is 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, Bluetooth
- Participated in building a new Wearables Framework (inspired by Android WearOS) from scratch for the next generation of Fossil smartwatches
- Spearhead 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

*Android Developer*

*Ho Chi Minh City*

- Worked as a part-time Android developer
- Contracted, developed and published 2 Android applications

## EDUCATION

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### University of Science, VNU-HCMC

2017 - 2022

*Bachelor of Software Engineering*

*GPA: 3.1/4.0*

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

## PERSONAL PROJECTS

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### SunVerta Translation App

2024

*Pet project*

*[github.com/pduy99/HeliosTranslator](https://github.com/pduy99/HeliosTranslator)*

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

### eUSAC

2021

*Team Leader*

- **Technologies:** Kotlin, Clean Architecture, Data Binding, NodeJs/ExpressJs, JWT, MongoDB
- Developed a server and mobile application for managing university astronomy club activities
- Key functionalities:
  - \* Admins are allowed to create activities and meetings, with members registering through the app
  - \* Implemented attendance tracking using NFC member cards and QR codes
  - \* Developed a ranking system to track the participation levels of club members