

Do Huy Hoang

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Summary

iOS Engineer with 3+ years shipping production apps across health, fintech, and logistics sectors. Proven ability to introduce architectural improvements (TCA, BLoC) that increased scalability and testability on apps serving 1M+ users. Hands-on across the full mobile lifecycle — development, testing, CI/CD, and App Store delivery. Demonstrated full-stack depth through independent projects spanning Flutter, microservices (Spring Boot, Kafka), and Kubernetes, enabling faster cross-team integration.

Experience

Mobile Engineer, IMT Solutions, Ho Chi Minh City, Vietnam Aug 2022 – Jan 2026

DMS Viettel — *Enterprise Distribution Management System — Inventory, Orders & Logistics* Sep 2025 – Jan 2026

- Delivered **real-time inventory and order-processing** features used by enterprise clients across Vietnam's national distribution network, enabling end-to-end supply chain visibility.
- Migrated critical Flutter modules to a **BLoC-based architecture**, reducing state management complexity and cutting inter-feature coupling — improving maintainability for a 3-person mobile team.
- Built native camera integration for barcode scanning and document capture via **Flutter platform channels**, eliminating a manual data-entry step and reducing input errors.
- Collaborated with backend teams on **API contract design** for logistics workflows, reducing integration defects during sprint handoffs.

JRA — *Real-time Horse Racing & Betting Platform — 1M+ Active Users, Live Streaming* Aug 2024 – Aug 2025

- Led architecture migration from MVVM to **The Composable Architecture (TCA)** for core betting modules, improving testability and enabling parallel feature development across a 4-engineer iOS team.
- Built live race-tracking feed using **WebSocket streams**, achieving **sub-100ms update latency** and maintaining a stable connection lifecycle to minimize battery drain.
- Implemented **Swift Macros** for repetitive data-binding patterns, reducing boilerplate code by an estimated 30% and accelerating feature delivery.
- Developed **WKWebView** embedded modules with a JavaScript bridge for hybrid web features, unblocking the web team to ship independently without native releases.
- Hardened authentication with **Face ID / Touch ID** biometrics and **AES-256 encryption** on sensitive user credentials and transaction data, meeting enterprise security compliance requirements.

Dacadoo — *Multi-tenant Digital Health Platform — Health Scoring, Wearables & AI-driven Insights* Jan 2023 – Jul 2024

- Developed and maintained **iOS and Apple Watch** apps in UIKit and SwiftUI, supporting multi-tenant white-labeling across health clients in **10+ countries**.
- Integrated **HealthKit** for real-time sync of step count, heart rate, sleep, and workout data into the health-scoring engine, enabling richer personalized insights for end users.
- Refactored the networking layer with **Swift Concurrency (async/await)**, eliminating race conditions responsible for background-thread crashes and improving app stability.
- Delivered **Crowdin SDK** localization across **10+ regional markets** without forking the codebase, reducing localization release effort by an estimated 50%.
- Increased ViewModel unit test coverage using **XCTest**, reducing regression defects in core business logic across sprint cycles.
- Maintained **Fastlane + GitLab CI** pipelines for automated builds, code signing, and App Store submission, enabling same-day hotfix deployments.

Projects

Octopus — **Real-time Team Collaboration Platform** | *Flutter · Spring Boot · Kafka · Docker · Kubernetes · Socket.io · MongoDB · Redis*

- Architected the Flutter mobile client with **Clean Architecture** (Data / Domain / Presentation), real-time messaging

via **Socket.io**, push notifications, and file sharing.

- Designed a 7-service microservices backend using **Spring Boot**, **Spring Cloud**, and **Kafka** for async event streaming.
- Deployed all services to **Kubernetes** via **Helm** charts with **GitLab CI/CD** pipelines — production-ready infrastructure.
- Implemented **JWT**-based auth service with role-based access control and **OTP** email workflows.

Technologies

Languages: Swift, Objective-C, Dart, Kotlin, Java

iOS Frameworks: UIKit, SwiftUI, HealthKit, Vision, WKWebView, Swift Concurrency, Swift Macros

Architecture: MVVM, MVVM-C, TCA (The Composable Architecture), Clean Architecture, BLoC

Networking: RESTful API, WebSocket, Socket.io, URLSession, Firebase, Dio / Retrofit

Security: Face ID / Touch ID, AES-256 Encryption, OTP Auth, JWT, Secure Keychain Storage

Testing & Quality: XCTest (Unit & UI), Instruments, Crash Analysis

CI/CD & Tooling: Fastlane, GitLab CI/CD, GitHub Actions, Git, Crowdin, App Store Connect, TestFlight

Cross-Platform: Flutter (Dart) **Android (Native):** Android SDK, Jetpack, Material Design, Dagger/Hilt

DevOps: Docker, Kubernetes (Helm), Nginx

Backend (Exposure): Spring Boot, Spring Cloud, NestJS, Kafka, PostgreSQL, MySQL, MongoDB, Redis

Education

Industrial University of Ho Chi Minh City (IUH), Bachelor's Degree in Software Engineering

2019 – 2023