

Vũ Hoàng Sơn

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Work Experience

iOS Developer

Hanoi

GSM - The smart and sustainable electric taxi services

Nov 2023 - Now

- Developed iOS application for users (order creation) and drivers (order management) using RxSwift, RxSwift extensions, and RxCocoa.
- Implemented real-time order dispatch system, managing the full order cycle (request, route execution, payment flow) using SSE, gRPC, polling, and UDP sockets.
- Integrated Google Map SDK for drawing routes, custom markers, polylines/polygons, and interacting with map navigation.
- Utilized CoreLocation for precise driver location tracking and updates.
- Developed CoreData-based translation sync, social sign-on (Apple, Google, Facebook), and media services (image upload & compression).

iOS Developer

Hanoi

FPT - Instant camera printer application

July 2021 - Dec 2022

- Developed an iOS application that connects to BLE devices for capturing, editing, and instant printing of photos with customizable effects (stickers, text, frames, filters).
- Implemented real-time photo and camera filters using GPUImage2 (OpenGL shaders for brightness, contrast, blending, etc.). Design persistent data model and support data migration with CoreData.
- Optimized performance by managing concurrent tasks for downloading, syncing, and applying server-side effects.
- Integrated push notifications (Firebase, Leanplum) and analytics (Firebase Analytics, Amplitude).
- Contributed to CI/CD setup and collaborated within a 30-member team as an iOS Developer (Swift 5).

iOS Developer

Hanoi

FPT - Disc Player

Jan 2021 - June 2021

- Developed an iOS app enabling iPhone connectivity with external CD/DVD drives to explore, play media, and back up files.

- Ported multimedia commands from Android to iOS and implemented full file management operations (read, copy, delete, write, sort, filter).
- Applied ExternalAccessory and concurrency programming (GCD, DispatchGroup, Operation) for reliable device communication and data handling.

iOS Developer

Hanoi

FPT - Business banking & Health Wearable application

Jan 2020 - Dec 2020

- Developed authentication features: login, password update, and managing authentication methods.
- Collaborated on a health & wearable application enabling sleep assistance, stress reduction, and health data tracking (EEG, heart rate, SPO2, etc.).
- Implemented Siri Shortcuts (IntentsUI) for voice assistant integration.
- Managed reminders with UserNotifications and developed media playback with AVFoundation & MediaPlayer.

Android Developer

Hanoi

FPT - AI Attendance System

2018

- Implemented and researched AI face recognition (FaceNet) to automate and speed up attendance tracking.
- Developed features for viewing schedules, class information, and online/offline attendance.
- Authored use case documents, test cases, and architecture design.
- Reference:
<https://fpt.edu.vn/tin-tuc/25276/sv-fpt-hien-ke-diem-danh-qua-nhan-dang-khuon-mat>

Education

FPT University

Bachelor of Software Engineering

Hanoi

2018

Additional Information

Languages: Swift, SwiftUI, Java, Objective-C

Technologies: concurrency (gcd, operations), core data, core location, external accessory, avfoundation, rxswift, gpuimage2, realm, git