

Vinh Nguyen

Mobile Developer (React Native / Flutter)

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Portfolio: <https://vapnguyen24.github.io/portfolio/>

Summary

I am a mobile app developer who is passionate about turning creative ideas into real-world mobile applications. With experience in both cross-platform and native development for Android and iOS, I focus strongly on performance, stability, and user experience. Every product I build is designed to be smooth, intuitive, and scalable for long-term growth.

Technical Skills

Languages: JavaScript, TypeScript, Dart, Java, Kotlin

Frameworks: React Native, Flutter, Android Native

Tools: Git, Firebase, WebRTC, Docker

Architecture: Clean Architecture, MVVM

Work Experience

Mobile Developer – Industrial Embedded Solutions

Aug 2023 – Present

HCMC, Vietnam

Real-time Screen Casting System

Flutter, Native Platform, WebRTC, WebSocket, Wifi-Direct

- Developed a **real-time screen casting application** enabling P2P streaming using **WebRTC**.
- Implemented **screen capture** and **audio streaming** via **Flutter** and **Android native modules**.
- Built **P2P communication** and **signaling system** using **WebSocket**.
- Established device connectivity via **Wi-Fi Direct**, removing dependency on internet or routers.
- Optimized streaming performance to achieve **low latency (150ms)** and stable **60fps** transmission.
- Improved application stability through efficient **state management** and **resource handling**.
- Designed **scalable architecture** for maintainability and future feature expansion.

References: Project details

ThingIQ

React Native, Expo, ECharts, MapSDK, SocketIO, Zustand

- Developed an **IoT device management application** using **React Native** and **Expo**.
- Built **real-time monitoring and control** features for connected IoT devices.
- Implemented **real-time communication** using **Server-Sent Events (SSE)** and **Socket.IO**.
- Integrated **data visualization dashboards** using **Apache ECharts**.
- Developed **interactive map features** for device tracking using **Map SDK**.
- Managed application state with **Zustand** and server state using **TanStack Query**.
- Integrated backend services and **push notifications** via **Firebase**.
- Optimized performance for **large-scale real-time data** and improved app responsiveness.
- Structured codebase using **feature-based architecture** for scalability and maintainability.

References: App Store, Google Play, Project details

HCMC, Vietnam

Finsell

Flutter, Dio, Riverpod, Notification, SSO Authentication, WidgetKit

- Developed a **cross-platform personal finance application** using **Flutter** for iOS and Android.
- Built an **AI financial advisor chat** supporting **real-time messaging**, image upload, and Markdown rendering.
- Implemented **real-time customer support chat** using **Socket.IO** with auto-reconnection and message persistence.
- Developed **multi-wallet and multi-currency** transaction management with analytics and categorization.
- Integrated **data visualization dashboards** using **FL Chart** for financial insights.
- Managed application state using **Riverpod** following **Clean Architecture** (Data / Domain / Presentation).
- Implemented secure authentication with **Firebase Auth**, **OAuth (Google, Apple)** and **JWT token refresh**.
- Integrated **push notifications** and analytics via **Firebase Cloud Messaging** and **Firebase Analytics**.
- Built **in-app subscription system** with multiple premium tiers using **In-App Purchase**.
- Optimized local data persistence using **Hive (encrypted)** with a generic repository pattern.

References: App Store, Google Play, Project details

MyFPL

React Native, JavaScript, Redux Saga, Axios, SSO, Firebase

- Developed a **cross-platform education mobile application** using **React Native**.
- Implemented **state management** and side-effect handling using **Redux Saga**.
- Integrated backend services via **RESTful APIs** using **Axios**.
- Implemented **Single Sign-On (SSO)** for secure authentication.
- Integrated **push notifications** using **Firebase Cloud Messaging**.
- Built core features including **academic scheduling**, **grade tracking**, and **attendance monitoring**.
- Optimized performance using **FlashList** and **MMKV** for fast data access and smooth UI.
- Implemented **OTA updates** using **CodePush** to deliver instant fixes without store redeployment.

References: App Store, Google Play, Project details

Languages

- Vietnamese: Native
- English: Intermediate