



**Hieu Nguyen**  
**Mobile Developer**



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vanhieunguyen21.github.io



## Profile

I'm a Mobile App Developer with experience in native mobile app development. Throughout my career, I've built many **Android** applications, most of them with **Jetpack Compose**. After that I got into native **iOS** development using **SwiftUI** and have developed a few iOS apps since.

Experienced in solving both UI problems and logic problems, I've create a large amount number of **custom UI** components, designed many databases and used countless tools to achieve desired outcomes.

I strive to develop intuitive, user friendly apps while maintaining **simplicity** and **performance** of said apps. At the same time I try to learn **new technologies** and best practices to enhance the app development.



## Education and Certificates



**Posts and Telecommunications Institute of Technology (2016 - 2021)**

**Bachelor of Engineering in Computer Science**

GPA: 3.6/4.0



**Test of English for International Communication**

Score: 925 / 990

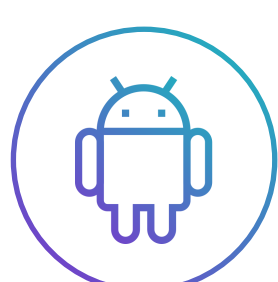


## Technical Skills



### Common Mobile Development

- Build elegant and performance UI using both **Jetpack Compose** and **XML Views** (Android) and **SwiftUI** (iOS).
- Creating custom UI components or custom animations to suit the requirements.
- Design suitable, clean and scalable app architecture using **Model-View-View Model (MVVM)**.
- Applying **multi-modules** (Android) and **multi-packages** (iOS) app architecture.
- Design and implement databases using **Room** database (Android) and **GRDB.swift** (iOS).
- Use dependencies injection tools: **Hilt**, **Koin** (Android) and **Swinject** (iOS).
- Handle custom graphic components using **OpenGL** (Android) and **Metal** (iOS).



### Android Specific

- Integrate C and C++ code into development using Android NDK.
- Handle network calls using **Retrofit** or **Ktor**.
- Create, edit or play media using Android Native **Media3** framework.
- Handle **Google Play Store Console** account and policies.
- Expert in implementing monetization with **ads** and **in-app purchases**.
- Develop and publish libraries and SDKs for internal use.
- Integrate local **Tensorflow Lite AI models** into the app.
- Optimize app performance with **Baseline Profile**.





### iOS Specific

- Handle **App Store Connect** app deployment and policies.
- Implement monetization with **ads** and **in-app purchases**.
- Use **SwiftGen** tool to generate compile time type safe resources.



### General and Others

- Strong understanding about application **architecture** as well as using appropriate tools to achieve the result.
- Skillful in **OOP, design patterns, data structure and algorithm**.
- Use many tools such as **Git, Firebase, Docker, AWS** and **GCP** for development purposes.
- Write code in other languages such as **Python, Javascript** or **C++** for other tasks such as mass data manipulation or simple websites.
- Take part in **monetization analyze sessions** to pin-point problems and optimize show rate and eCPM (for Ads) and purchase rate (for IAP).



## Work Experiences

**Jun 2023 – Oct 2025**

Apero Technologies  
Group & Astronex JSC



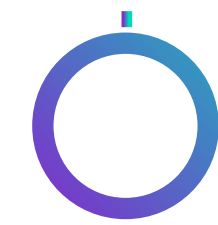
### Mobile Software Developer

Started as Android Software Developer. Later got into developing iOS applications using SwiftUI to expand market reach. Ultimately promoted to technical expert title in the company.

- Implement Android native applications and libraries.
- Implement iOS native applications using SwiftUI.
- Troubleshoot and optimize Ads and IAP monetization in apps.
- Offer both non-technical and technical recommendations and advices throughout apps development flow.

**May 2022 – Jun 2023**

Trek2000 International



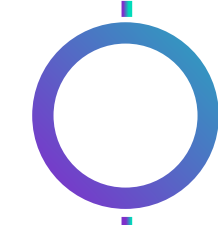
### Android Software Developer

Develop Android software products from scratch. Participate in new ideas research as well as improve current products.

- Developed Android application to unlock encrypted usb device using biometrics and bluetooth low energy (BLE).
- Developed Android application to receive, control and livestream from a flashlight with embedded camera.

**Apr 2021 – May 2022**

Samsung Vietnam  
Mobile R&D Center



### Android Framework Engineer

Take part in developing, maintaining and improving company's mobile graphics framework. Look into ways to improve graphics performance in Company's mobile devices.

- Research new inventions to be applied into the mobile phone.
- Achieved Professional title in Algorithm tests.



## Projects

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### Muslim Prayer (**Android** & **iOS**)

An Utilities app for Muslim: Qibla Compass, Quran, Prayer Times, Hijri Calendar...

Details Android: [vanhieunguyen21.github.io/#/project/muslimprayer](https://vanhieunguyen21.github.io/#/project/muslimprayer)

Details iOS: [vanhieunguyen21.github.io/#/project/muslimprayerios](https://vanhieunguyen21.github.io/#/project/muslimprayerios)



### Retica - Photo Editor (**Android**)

A photography app, allowing capturing, editing images and more...

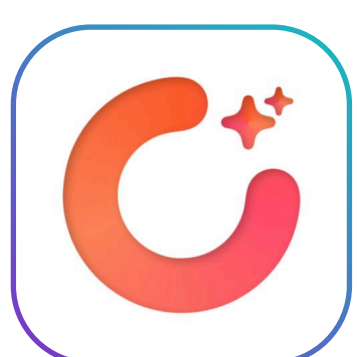
Details: [vanhieunguyen21.github.io/#/project/retica](https://vanhieunguyen21.github.io/#/project/retica)



### Mirae - Video Editor (**Android**)

A video app that lets you record, create and edit videos with many features...

Details: [vanhieunguyen21.github.io/#/project/mirae](https://vanhieunguyen21.github.io/#/project/mirae)



### Charme - Photo Editor (**iOS**)

A photography app, allowing capturing, editing images and more...

Details: [vanhieunguyen21.github.io/#/project/charmeios](https://vanhieunguyen21.github.io/#/project/charmeios)



### Retro Emulator (**Android**)

An emulator application that lets you play retro games such as Gameboy, Nintendo, Atari...

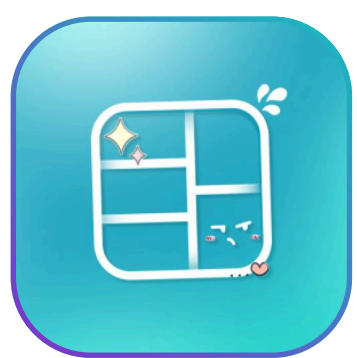
Details: [vanhieunguyen21.github.io/#/project/retroemulator](https://vanhieunguyen21.github.io/#/project/retroemulator)



### Heka - Calories Counter (**Android**)

A health app that lets you scan your meal to analyze its nutrient and help you control your nutrient.

Details: [vanhieunguyen21.github.io/#/project/heka](https://vanhieunguyen21.github.io/#/project/heka)



### Bluen - Collage Maker (**Android**)

A photography app focusing on assembling multiple images into one.

Details: [vanhieunguyen21.github.io/#/project/bluen](https://vanhieunguyen21.github.io/#/project/bluen)



### QR Scanner (**Android**)

Lets you scan QR codes and categorize them. Provide other tools such as create QR Code and scan documents.

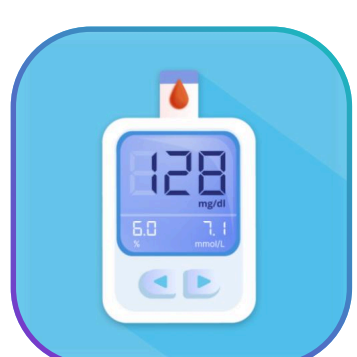
Details: [vanhieunguyen21.github.io/#/project/qrcode](https://vanhieunguyen21.github.io/#/project/qrcode)



### Nutrigen - Meals Generator and Calories Calculator (**Android**)

A health app that lets you generate your meals based on your preferences and monitor your diet progress.

Details: [vanhieunguyen21.github.io/#/project/nutrigen](https://vanhieunguyen21.github.io/#/project/nutrigen)



### Blood Sugar (**Android**)

A health app that records blood sugar, blood pressure, heart rate records and create your medicine reminders..

Details: [vanhieunguyen21.github.io/#/project/bloodsugar](https://vanhieunguyen21.github.io/#/project/bloodsugar)



### DramaPop (**Android**)

A video streaming app that lets users stream short videos from server.

Details: [vanhieunguyen21.github.io/#/project/dramapop](https://vanhieunguyen21.github.io/#/project/dramapop)



### Viridis AI Art (**Android**)

Lets users turn their images into styled AI generated images. Also support drawing to elevate imaginations.

Details: [vanhieunguyen21.github.io/#/project/viridis](https://vanhieunguyen21.github.io/#/project/viridis)



### She Calendar - Period Tracker (**Android**)

A health that helps predicting Women Period days along with abilities to note sytoms, view historical data or set reminders.

Details: [vanhieunguyen21.github.io/#/project/shecalendar](https://vanhieunguyen21.github.io/#/project/shecalendar)