Hoang Nguyen

Mobile software developer with a strong focus on UI/UX and product excellence.

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StackOverflow
Github

ABOUT ME

Around ten years in the software industry as a multiple-platforms developer, specialized in Android mobile development.

· Mastering Java and Kotlin programming languages and have a strong understanding of Android SDK, state of the art architecture patterns & tools.

· Developed many apps across multiple domains: e-commerce, travel, banking, delivering etc, not only limited to mobile but also web applications.

· Practical experience with cross-platform mobile development framework Flutter.

EXPERIENCE

Senior Android Developer – NFQ Asia, Vietnam   APRIL 2022 - PRESENT

Project Peax, digital post box (Android native) (Play Store)

· Developing an Android app for the Swiss market, serves as a digital post box for Swiss citizens to transform traditional invoices/post mails management to modern digital platforms.

· Coordinate with client's Product Owner, Back-end and design team in an Agile way to implement a pixel-perfect Android app with impressive animations and transitions, modern material design like Edge-to-edge, dark mode support. Support multiple languages with Transifex Native SDK integrated. Ensure the app has the highest possible quality by having code coverage over 80% as well as SonarQube analytic applied in CI/CD pipeline.

· Deliver product on time, on budget and get rating 5/5 from client.

Project ProSports, soccer training management app (Android native)

· Helped a German client to build a native app that wraps the web app with some Webview & Javascript tweakings.
Setup full CI/CD pipeline by using Gitlab Runner with Docker & Firebase Distribution.

Project Pulse Music – one part of Pulse World metaverse (Android native)

· Led a team of 4 in developing an innovative music app that aims to introduce a new way for music fanatics to enjoy music in the metaverse with blockchain technology.

· Defined app architecture following Clean Architecture that allows the app to be scalable and increases its robustness. Implemented media session which can play well together with other apps that play audio, supports Wear OS and also Android Auto (**Media session & media controller, foreground service, Kotlin Coroutines & Flow**)

· Reviewed & proposed some system design for the Backend team, e.g., Station streaming implementation with Ice Cast. Also help them in imposing some security restrictions on RESTful API.

· Conducted research on metaverse 3D avatar (avatarsdk.com), Unity integration and blockchain. Cooperated with the Wallet team from Indian to bring their blockchain-based crypto Wallet from the web to the mobile app.

Other projects (Flutter):

SKILLS

· **Kotlin, Java, RxJava**, Android Jetpack & Jetpack Compose, Reverse engineering

· **Dart**, Flutter, declarative UI

· **HTML & CSS, Javascript**, NodeJS, ReactJS

· **SQL**, **NoSQL**, Room, SQLite, SQL Server, Hawk

· **Cloud:** Firebase, GG Cloud, AWS

· **Testing:** Unit testing, UI testing, Automation testing, Postman

· **Source control & CI/CD:** Git, SVN, Gitlab runner with Docker, SonarQube, Bitrise.

· **Agile tool**: Jira, Backlog, Trello, Redmine

· **Design:** Photoshop, Gimp, Figma, Miro, Frontify, Overflow

AWARDS

· 2nd group prize at ACM–ICPC (2009)

· Japanese IPA FE Certified

Never Have I Ever NFQ, A dare or drink game - play online real time using websocket
Highland Coffee app, POC for Highland brand

· Worked as full-stack: handled backend, database server and also mobile app development (Flutter which deployed to both iOS & Android), published to App Store & Play Store. (BLoC State management, Universal link & Applink handling, GetIt & Injectable for Dependency injection, Socket.io, Dio & Retrofit for REST API, mongoose & mongoDB, NodeJS)

Senior Android Developer — Est-rouge, Vietnam   APRIL 2019 - APRIL 2022

· Provide technical leadership in the development of core functionality Android modules:

>   **Sale SDK**, for selling music concert tickets online and handling payments.

>   **Festival e-commerce**, for selling musical festival's goods.

Those have been integrated in more than 5 **e+** festival applications, serving millions of Japanese customers (ePlus app, Vivala rocks and more). (**Kotlin Coroutines, Flows, Android Jetpack, Room, WorkerManager, RxJava**)

· Designed and implemented a visual-seat-selection module that allows fans to browse baseball events, view interactive color-coded seat maps of TokyoDome stadium which has more than 55k seats, complete purchase and receive electronic tickets (demo). Clients give 2x positive feedback compared to the corresponding web version which doesn't have a seat selection module. (**Webview, JavaScript, SVG, Unity integration**)

· Led the development of a secure video streaming app to stream live/VOD music concerts to audiences as an entertainment solution during Covid 19 lockdown. (**ExoPlayer, Wowza, Widevine DRM**).

· Wrote Gradle scripts to maintain and publish submodules to S3 and Nexus repositories for internal and third-party uses. Wrote Bash scripts to automate sub-modules publishing which reduced application building time by 50%.

· Involved in mentoring, code reviewing, and pair programming. Shortened junior training time by 30% by pair programming and spreading knowledge/best coding practices through technical channels and workshop presentations.

Lead Android Development — Justgola startup, Singapore   MAY 2016 - MAR 2019

· Developed, published, and controlled the quality of innovative travel products such as trip planner apps (Danang Fantasticity, Justgola), and a chat app that connects travelers and local agents. Most apps had high ratings (>4.0 stars) and helped the team get initial seed funding. (**RxJava2, Dagger2, Skobbler offline map, FirebaseAuth, FirebaseDB, Cloud Functions**).

· Created mobile solution for Singaporean fastest growing money lender Crawfort, aimed at helping Singaporean and Philippine users to get a flexible personal loan through hassle-free steps just by using their phone. Cooperated with server-side in defining database schema, working flow, API interfaces to adapt to the rapid changes of their business. (**GraphQL, Koin, Bitrise CI/CD**).

Android Software Developer — *Smartdev LLC, Vietnam*   DEC 2014 - MAR 2016

· Led a team of 3 to develop banking wallet applications for Smartlink with 100% projects delivered on time by enforcing a strict Agile process and a reasonable mixing between unit test and automation test.

· Coordinated with the server-side team to implement REST APIs that ensure security

MORE OF ME

I enjoy creating tools to help people. I've realized crafting software is a delightful means to do it, since the moment I wrote my first application when I was 13. That's why I always love making quality applications that can help users the most.

In my free time, I find peace in cycling, badminton and playing with my adorable children.

standards, compliance with PCI DSS (used SSL self-signed certificate).

.NET Developer — *Fpt Software, Vietnam*   APRIL 2014 - DEC 2014

· Participated in developing a used car management system, including car repairing and trading modules for Gulliver on .NET stack. Designed SQL DB schema, architected the MVC code base, wrote technical wiki, and solved technical issues of the project (Team size 80+).

Android & iOS Developer — *Revo21 startup, Vietnam*   NOV 2012 - JAN 2014

· Joined a startup founded by my friend, aimed to develop a system to publish cross-platform interactive media (UI design, API design, Architecture of platform) and took care of Android/iOS development (**Java/Objective C**).

J2ME Mobile Game Developer — *Gameloft, Vietnam branch*   JULY 2010 - OCT 2012

· Ported 10+ J2ME mobile games to a wide range of feature phones.

Freelancer   2012 - now

· Product owner/tech consultant of Zenith Calendar product (Scheduling management tool from Finland).

· Worked on 20+ mobile, hybrid, and desktop apps in a wide range of domains: food order, working scheduler assistant, crypto, industrial Business Process Outsourcing tools, etc. Worked on legacy code as well as specialized devices: Android barcode scanner, thermal ticket printer, kiosk tablets, NFC card reader, POS devices.

EDUCATION

Science and Technology University, Da Nang
· Awards: excellent in education, 2nd group prize at ACM-ICPC, Region Asia & Pacific, 2008

Le Quy Don High School for the Gifted, Da Nang
· Awards: 2nd prize at Danang Olympiad in Informatics, 2005

REFERENCES

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