

VAN DUY NGUYEN

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Android Developer

Experienced and seasoned Android Developer with 9 years of professional experience developing a wide range of enterprise mobile applications for some big companies including Samsung and NAB (National Australia Bank). Developed and maintained many Android applications for several business sectors like Health, Education, Entertainment, Enterprise Applications, IoT Android applications, and Banking. Vast experience with the Android Native stack, proficient in technologies like Dagger, Hilt, Clean Architecture, Jetpack framework, Jetpack Compose, MVP, MVVM, and KMP.

Object Oriented Programming (OOP) • SOLID Principles • Design Patterns • Clean Architecture
Reactive Programming • Concurrency and Multi-Threading • Dependency Injection • CI/CD • Agile

Languages: Java, Kotlin, JavaScript

Web Services: REST, JSON, Retrofit, OkHttp

Frameworks: Android, Spring Boot, JUnit, Mockito, Espresso

Databases: SQLite, Room

Design Patterns: Singleton, Factory, Abstract Factory, Command, Builder, Strategy, Observer, MVC, MVP, MVVM, Dependency Injection

SDLC: Agile, Scrum

Tools: Jenkins, Circle CI, Gradle, Maven, Git, Github, Jira, Confluence, Slack, Dagger, SonarQube, WebRTC, Android Studio Profiler, ProGuard

Platforms: Android OS, Microsoft Window, macOS

PROFESSIONAL EXPERIENCE

CAREER NOTE: Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).

National Australia Bank (NAB), HCM, Vietnam • 10/2022 – 03/2024

A banking company in Australia.

Android Engineer

Implemented key features for a bank app using Agile and DevOps practices.

- Developed and designed UI for Insurance Support and Buy Now Pay Later (BNPL) using Android layout and Jetpack Compose, enhancing user experience leading to 20% increase in client satisfaction ratings.
- Integrated Insurance Support and BNPL features using Kotlin, Kotlin Coroutines, and Dagger, improving app stability and functionality resulting in a 100% approval rating from clients during the walk-through meetings.
- Connected the Insurance Support and BNPL features from Android native UI to mini-apps using Android WebView, reducing the load of native development, utilizing and synchronizing with web-based mini-apps.
- Implemented Unit Tests and Automated Testing for the Bank Account module using JUnit, Mockito, and Espresso library, decreasing defects by 25%, ensuring smooth QA team approvals with a 100% pass rate on first testing.
- Integrated SonarQube with Jenkins pipeline to analyze code quality, leading to the early detection of code vulnerabilities and improving codebase maintainability by 20%.
- Released the [NAB Mobile Banking](#) on Google Play using Google Play Console, tracked usage and user behavior via AppDynamics, and managed incident resolution through Jira, reducing incident response time by 30%.

Technologies Used: Kotlin, Kotlin Coroutines, Dagger, Clean Architecture, JUnit, Mockito, Espresso, SonarQube, Jenkins, GitHub, Jira.

Samsung Electronics HCMC CE Complex, HCM, Vietnam • 03/2019 – 09/2022

Member of Samsung Electronics is the world's second largest TV and home electronics manufacturing complex.

Android Engineer

Develop android applications which belong to Samsung Enterprise eco-system.

- Developed [Samsung Signage mobile application](#) which enabled streaming live video and audio from mobile device to Samsung Flip board using WebRTC technology, resulting in 1000+ downloads within 1 month after launching on Google Play Store.

- Collaborated with the backend team and UI/UX team to develop the Samsung Signage application from scratch with screen-sharing capabilities using WebRTC and MVVM architecture, providing a seamless remote collaboration experience for users.
- Conducted Unit and Automated Testing for the Flip application's Account module using JUnit, Mockito, and Espresso, ensuring 95% test coverage and reducing post-release defects by 20%.

Technologies Used: *Kotlin, Kotlin Coroutines, WebRTC, Dagger, JUnit, Mockito, Espresso.*

River-City Technology, HCM, Vietnam • 01/2018 – 02/2019

Start-up focusing on developing mobile apps for education and healthcare.

Android Engineer

Develop e-book android apps.

- Collaborated with the Design team, clients, and Product Owner from Germany to build an E-book application from scratch, ensuring alignment with user needs and resulting in on-time delivery.
- Designed the architecture using the MVP pattern and implemented eBook app synchronizing between mobile devices, improving maintainability of the application, and enhancing user satisfaction by 30%.
- Executed Unit Tests and automated testing using JUnit, and Mockito, achieving 90% test coverage and reducing post-release issues by 20%.
- Optimized app performance by refactoring key modules using Asynchronous techniques like Executors, and RxJava, reducing load times by 25% and improving user experience.

Technologies Used: *Java 8, Kotlin, android sdk, Retrofit2, OKhttp, Dagger 2, EventBus, RxJava, RxAndroid, JavaScript, MVP, ProGuard, Android Studio Profiler.*

Terralogic, Ho Chi Minh, Vietnam • 06/2017 – 12/2018

A global IT services and technology solutions provider that offers a wide range of services.

Software Engineer

Collaborating with cross-functional teams to create high-quality mobile applications.

- Developed [Frankly News Fire-TV app](#) using Java, MVP architecture, and Retrofit as well as built the APK file to publish to the Amazon Fire-TV store, resulting in a high ratings from customers.
- Implemented features such as Now Playing, and News using Exo-Player third party, resulting in improving the quality of the video player by 20%.
- Developed a Weather Forecast feature with a beautiful layout using dynamic JSON weather data that loads from the server, enhancing user satisfaction by 20%.

Technologies Used: *Java, MVP architecture, Constraint Layout, Retrofit, RxJava, JUnit, Mockito, Espresso, Google Analytics, Exo-Player library.*

FPT Software company, Ho Chi Minh, Vietnam • 01/2015 – 01/2017

A global technology, outsourcing, and IT services company.

Software Engineer

Designed, developed, and maintained Android applications for diverse clients.

- Developed UI/UX of refueled oil history screen in mobile app using ListView in Android SDK, enhancing user experience.

Technologies Used: *Java, Android SDK, Android Studio, REST APIs, Android Networking API, JUnit, Mockito, Gradle.*

EDUCATION

Master of Computer Science in Computer Science

(In progress via distance education; expected completion 12/2026)

Maharishi International University, Fairfield, Iowa

Key Courses: *Enterprise Application, Machine Learning, Advance Software Development, Algorithms*

Engineer in Telecommunication - Electronics Engineering Technology

Da Lat University, Da Lat city, Vietnam (12/2013)