

VU NGUYEN

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Mobile Engineer

Professional Mobile Engineer with over 12 years of experience delivering high-performance solutions across banking, fintech, media, healthcare, and e-commerce. Expert in iOS (Swift) and Android (Kotlin, Java) development, leveraging Clean Architecture, Modular Architecture, SOLID principles, caching strategies, remote configuration, and data security to build scalable and secure applications. Experienced in the full SDLC, including product analysis, system design, development, testing, deployment, and monitoring, with strong focus on Agile methodologies (Scrum). Skilled in mentoring teams, promoting best practices, and solving complex technical challenges collaboratively.

Problem Solving • Data Structures and Algorithms • Database Management • Design Patterns
Object-Oriented Programming • Reactive Programming • Memory Management • Performance Optimization
Troubleshooting • Analytical and Critical Thinking • Unit/Integration Testing • Security • CI/CD

Languages: *Kotlin, Java, Swift, Objective-C*

Web Services: *REST API, GraphQL*

Frameworks: *SwiftUI, Async / Await, Combine, RxSwift, Swift Data, Core Data, UIKit, SnapKit, XCTest, XCUITest, Alamofire, Android Jetpack, Compose, Retrofit, Dagger, Gson, Junit, Mockito, Room, Spring*

Databases: *SQLite, MySQL*

Architecture: *MVVM, MVI, MVC, Clean Architecture, Modular Architecture, Repository, Coordinator*

Design Patterns: *Strategy, Factory, Template, Observer, Adapter, Composite, Decorator, Facade, Proxy*

SDLC: *Agile, Scrum, Kanban*

Tools: *Xcode, Instruments, CocoaPods, Swift Package Manager, Postman, Accessibility Inspector, Android Studio, Profiler, Gradle, Sketch, Figma, GitHub, Jenkins, Fastlane, App Center, Swagger, Jira, Confluence, Maven*

Platforms: *Firebase, LaunchDarkly, AppDynamics, Branch.io, Gigya*

PROFESSIONAL EXPERIENCE

NATIONAL AUSTRALIA BANK • 11/2021 – 04/2024

National Australia Bank's strategic hub drives scalable, secure, customer-centric digital banking solutions.

Senior Mobile Engineer / Team Lead

- Architected and optimized Advanced Transaction History Uplift to achieve sub-3-second response times (SLA/SLO)
- Developed Buy Now Pay Later, Quick Balance, and Goal Insights features using SwiftUI and Swift Concurrency for iOS, and Android Jetpack with Coroutines for Android
- Released phased feature updates to achieve controlled, percentage-based rollouts by configuring LaunchDarkly
- Integrated AppDynamics and Splunk to support 24/7 production monitoring and incident resolution, maintain 99.99% availability, and boost app ratings from 4 to 5 stars
- Led cross-functional teams in Vietnam, India, and Australia, mentoring juniors and delivering four major features on schedule

Technologies Used: *SwiftUI, Swift Concurrency, SPM, WKWebView, XCTest, Accessibility, Instruments, Android Jetpack, Compose, Retrofit, Dagger, Gson, Junit, Mockito, LaunchDarkly, AppDynamics, GitHub, Jenkins, Fastlane, App Center*

PIZZA HUT DIGITAL TECHNOLOGY • 10/2020 – 11/2021

Pizza Hut D&T drives global digital transformation and technological innovation initiatives.

Senior Software Engineer / Team Lead

- Built a universal app using SwiftUI, Android Jetpack with a shared Clean and Modular architecture, achieving a 40% reduction in development costs across iOS and Android
- Enabled A/B testing and enhanced localization by applying remote configuration across 10+ countries, boosting engagement 15%
- Coached the Vietnam team to collaborate with US and UK teams across departments throughout the Agile SDLC

Technologies Used: *Swift, SwiftUI, Combine, Apollo, GraphQL, SPM, App Analytics, Core Data, XCTest, XCUITest, Kotlin, Android Jetpack, Retrofit, Dagger, Gson, Junit, Mockito, APN, branch.io, Fastlane, Jenkins, App Center*

PYCOGroup • 04/2019 – 10/2020

Global consultancy providing Agile solutions for Shahid, a leading Middle Eastern video streaming platform.

Principal Mobile Engineer / Technical Lead

- Elevated the Shahid mobile app by implementing Gigya SSO (increasing login success rates by 20%) and launching native User Profile and Continue Watching features using Java, Kotlin, Swift and Objective-C
- Revamped Subscription Flow through Webview integration to improve completion rates, resulting in over 10k additional subscriptions in Q1 2020
- Mentored team members and coordinated collaboration with teams in Jordan and Dubai to drive project success

Technologies Used: *Swift, Objective-C, Core Data, XCTest, CocoaPods, Kotlin, Java, Retrofit, Room, Dagger, Gradle, JUnit, Mockito, Jenkins, Fastlane, Diawi, Swagger, FCM.*

TECHCOM SECURITIES • 12/2017 – 04/2019

Vietnam's top investment bank specializes in bonds, funds, and digital innovation.

Senior iOS Engineer

- Engineered TCInvest, a financial app built from scratch using functional reactive programming with RxSwift
- Setup CI/CD pipeline to achieve accelerated release cycles, improved testing efficiency, and seamless app publishing by using Jenkins and Fastlane
- Leveraged advanced analytics and push notifications to accelerate wealth trading promotion and contribute to a 45% increase in ROE compared to the previous year

Technologies Used: *Swift, RxSwift, UIKit, Alamofire, Core Data, CocoaPods, Swinject, InVision, GitLab, Jenkins, Fastlane*

FORIX WEB DESIGN • 06/2016 – 11/2017

An outsource agency, specializes in eCommerce design, development, and optimization.

Senior Android Engineer

- Enhanced US-based FuelCloud and Franklin Electric mobile apps to achieve over 4-star feedback, by boosting unit test coverage to 90% and resolving Crashlytics issues
- Introduced mobile PDF report generation by connecting via Bluetooth for automated data extraction

Technologies Used: *Java, Retrofit, Room, Dagger, Gradle, JUnit, Mockito, Jenkins, Fastlane*

NASH TECH • 05/2013 – 06/2016

IT outsourcing and consulting service across diverse industries globally.

Senior Mobile Engineer

- Created Ford Smart Parking native mobile solution to increase parking efficiency in London, by collaborating with the IBM backend team and integrating HereMapSDK
- Crafted mobile web applications for CalvinAyre and Bodog to support responsive design across device sizes and platforms, by using Sencha Touch SDK and AngularJS

Technologies Used: *JavaScript, Sencha Touch, JSON, Java, Android SDK, OrmLite, Google Map SDK, Here Map SDK*

EDGEWORKS SOFTWARE LTD • 08/2011 – 04/2013

German company specializing in software development and consulting.

Mobile Engineer

- Implemented cross-platform mobile apps for Jio Health and transitioned to native, launching a successful US healthcare startup

Technologies Used: *JavaScript, Titanium SDK, Java, Android SDK, REST API*

EDUCATION

Master of Science in Computer Science

Maharishi International University, Fairfield, Iowa

Key Courses: *Software Engineering, Algorithms, Advanced Software Development, Database Management Systems, Machine Learning, Artificial Intelligence*

Bachelor of Science in Computer Science

University of Science VNUHCM, Ho Chi Minh, Vietnam