

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 (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 a 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: Swift, Java

Web Services: REST API, GraphQL

Frameworks: SwiftUI, Combine, Concurrency, Swift Data, Core Data, UIKit, SnapKit, RxSwift, CocoaPods, Swift Package Manager, Swinject, Alamofire, XCTest, XCUITest, Apple Push Notification Service, Keychain Services

Databases: SQLite

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

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

SDLC: Agile, Scrum, Kanban

Tools: Xcode, Instruments, Postman, Accessibility Inspector, Sketch, Figma, GitHub, GitLab, Bitbucket, Jenkins, Fastlane, Diawi, App Center, Swagger

Platforms: macOS, Windows, Firebase, LaunchDarkly, AppDynamics, Branch.io, Giga

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

- Optimized the Advanced Transaction History feature to achieve sub-3-second response times.
- Developed the Buy Now Pay Later, Quick Balance, and Goal Insights features, ensuring consistent UI/UX across iOS and Android platforms.
- Enhanced stability by configuring AppDynamics and Splunk to monitor analytics, diagnose issues and implement fixes, boosting stability by 20% and ratings from 4 to 5 stars.
- Implemented phased app deployments on the App Store Connect, configuring LaunchDarkly for targeted, percentage-based, version-specific feature releases to achieve controlled changes with minimal risk.
- Handled 24/7 production support, troubleshooting incidents to maintain system stability and maximize uptime.
- Led cross-functional teams, mentored junior engineers, and successfully delivered four major features on time, achieving 100% schedule adherence.

Technologies Used: *SwiftUI, Swift Concurrency, Swift Data, SPM, WKWebView, Accessibility, Instruments, Keychain Services, JWT, LaunchDarkly, AppDynamics, GitHub, Jenkins, Fastlane, App Center*

PIZZA HUT DIGITAL & TECHNOLOGY - YUM! BRANDS • 10/2020 – 11/2021

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

Senior Mobile Engineer / Team Lead

- Built a universal app from scratch with Clean and Modular architecture, cutting development costs by 40%.
- Enabled A/B Testing and iterative refinements, improving user engagement by 15%.
- Configured remote settings to manage app behaviors across 10+ countries, reducing deployment times by 30% and enhancing localized experiences.
- Led Agile teams through SDLC, refactoring mobile apps for scalability with optimized CI/CD pipelines.

Technologies Used: *Swift, SwiftUI, Combine, Apollo, GraphQL, SPM, App Analytics, Core Data, XCUITest, APN, branch.io, Fastlane, Jenkins, App Center*

POSITIVE THINKING COMPANY • 04/2019 – 10/2020

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

Principal Mobile Engineer

- Developed Gigya SSO integration, increasing login success rates by 20%.
- Created User Profile feature, driving a 25% rise in user engagement.
- Launched Continue Watching feature, enhancing user retention by 10% month-over-month in the first quarter.
- Designed Subscription Flow, leading to a 30% improvement in subscription completion rates.
- Mentored team members and coordinated cross-functional collaboration to drive project success.

Technologies Used: *Swift, Core Data, XCTest, CocoaPods, 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

- Built a financial app from scratch using functional reactive programming.
- Integrated advanced analytics and push notifications, boosting user engagement by 25%.
- Streamlined deployment processes, ensuring seamless backend integration and zero downtime at launch.
- Improved stability post-launch, reducing crash rates by 15% through optimizations.

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 Mobile Engineer

- Maintained and updated FuelCloud and Franklin Electric apps, reduced crash rates by 25% through proactive bug fixes and code optimization.
- Integrated Bluetooth devices to extract data and generate PDF reports on the mobile app.

Technologies Used: *Swift, Objective-C, UIKit, SnapKit, CocoaPods, XCTest, Bitbucket*

NASH TECH • 05/2013 – 06/2016

IT outsourcing and consulting service across diverse industries globally.

Senior Mobile Engineer

- Developed the Ford Smart Parking Solution app, increasing parking efficiency by 20% through optimized UI/UX and API integration.
- Built mobile web applications for CalvinAyre and Bodog, enabling seamless gambling experiences across platforms.

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

EDGE-WORKS SOFTWARE LTD • 08/2011 – 04/2013

A German company specializing in software development and consulting.

Mobile Engineer

- Built cross-platform mobile apps for Jio Health and then transitioned to native, improving performance by 30%.

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