# Vraj Shah

## **Technical Skills**

Mobile Development: Android (Kotlin, Java, Jetpack Compose, XML, Hilt, MVVM, Coroutines, WorkManager, Firebase), iOS (Swift, SwiftUI, UIKit, ARKit, CoreData, Firebase, Alamofire, XCTest)

**API & Networking**: RESTful APIs, Retrofit, OkHttp, JSON Parsing, Alamofire (iOS), URLSession (iOS), WebSockets, GraphQL (basic).

Cloud & DevOps: Firebase, AWS, CI/CD Pipelines, GitHub Actions, GitLab CI/CD

Testing & Debugging: JUnit, Mockito, Espresso, Firebase Crashlytics, XCTest (iOS)

Version Control & tools: Git, GitHub, Bitbucket, GitLab, Jira, Figma, Postman

Performance Optimization & Architecture: MVVM, Clean Architecture, Memory Optimization, Battery Optimization, App Performance

**Soft Skills**: Strong communication, Problem-solving, Teamwork and collaboration, Adaptability, Attention to detail, Critical thinking, Time management, Proactive learning and knowledge sharing

# Work Experience

Simform Solutions Dec 2021 - Nov 2023

Software Engineer | Mobile Application Developer

Ahmedabad, India

- Optimized app performance by 40% through efficient memory management techniques, resulting in smoother user interactions and a more stable application experience.
- $\bullet$  Increased project scalability by 30% by implementing MVVM and Clean Architecture, enabling faster feature rollouts and reducing developer onboarding time.
- $\bullet$  Reduced API response times by 30% by integrating RESTful APIs with Alamofire and URLSession, optimizing data fetching through caching strategies and robust error handling.
- Improved code maintainability by 75% by conducting in-depth code reviews, identifying and resolving critical issues, and mentoring junior developers, enhancing overall team efficiency.
- Increased user engagement by 20% by delivering feature-rich updates weekly in a fast-paced Agile environment, ensuring consistent app improvements and user retention.
- $\bullet$  Decreased app crash rates by 35% by integrating Firebase Crashlytics, enabling faster debugging and higher app-store ratings through improved stability.
- Improved app responsiveness by 30% by developing dynamic and scalable UI components in SwiftUI, UIKit, and Jetpack Compose, resulting in a seamless user experience across devices.
- Enabled immersive AR experiences by implementing ARKit (iOS) and PhotogrammetrySession (macOS), allowing users to interact with 3D models in real-world environments.
- Reduced development cycle times by 20% by implementing CI/CD pipelines, automating build and testing processes, and ensuring faster and more reliable deployments.
- Enhanced IoT mobile app connectivity by developing BLE communication, enabling seamless device pairing and efficient real-time data transmission.
- $\bullet$  Increased app stability by reducing crashes by 35% by writing unit and UI test cases using XCTest, leading to a more reliable and bug-free user experience.

#### Education

#### Dalhousie University

Charusat University

Jan 2024 - Sep 2025

Master of Applied Computer Science — GPA: 4.07/4.3

Halifax, Canada Jun 2018 - Apr 2022

Bachelor of Computer Engineering — GPA: 8.7/10

Gujarat, India

**Projects** 

ServiceHub | Source Code

ReactJS | Spring Boot (JAVA) | MySQL | AWS

- Designed and built a scalable web application for service providers and requesters, integrating e-signed contracts and feedback systems, resulting in a 20% increase in user engagement by enhancing user trust and interaction flow.
- Designed a scalable infrastructure with EC2 Auto Scaling Groups (ASG), Elastic Load Balancer (ALB), and Amazon DynamoDB for high availability and fault tolerance.
- Automated infrastructure provisioning and deployment using AWS CloudFormation, ensuring consistent and repeatable cloud environments, reducing deployment time by 50%.

 $\mathbf{SpendWise} \mid \mathit{APK} \mid \mathit{Source} \; \mathit{Code}$ 

Android (Kotlin | Jetpack Compose) | Room Database

- Achieved 95% user satisfaction by developing an expense-tracking app with a seamless user interface and encrypted data storage via Room Database, allowing users to track finances securely.
- $\bullet$  Increased feature adoption by 20% by refining UI/UX design in collaboration with designers, leading to a more intuitive experience based on user feedback.

 $\mathbf{Habit} \mid APK \mid Source\ Code$ 

 ${\bf Android}~({\bf Kotlin}~|~{\bf XML})~|~{\bf Spring~Boot}~({\bf Kotlin})~|~{\bf MongoDb}$ 

- Boosted user engagement by 40% by building a habit-tracking app with real-time sync and offline storage using MongoDB, ensuring seamless performance even in low-connectivity environments.
- Enhanced app security by 30% by implementing secure backend protocols and ensuring data reliability, leading to increased trust in the app's performance and security.

Eventy | Source Code

iOS (Swift) | SwiftUI | Realm

- Developed an interactive iOS application using SwiftUI and integrated Realm database for efficient local data storage and retrieval, ensuring seamless offline functionality and a smooth user experience.
- Implemented reusable SwiftUI views, MVVM architecture, and Realm database to enhance scalability, maintainability, and real-time data syncing, enabling a clean and modular codebase for future feature integration.