

NAVDEEP SINGH RANA

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Full Stack Web Developer | MERN Stack | iOS Native Experience

Performance-driven Full Stack Web Developer & iOS Developer with 8+ years of hands-on experience in designing, building, testing, implementing, and maintaining high-quality iOS applications. Skilled in Swift, TDD, Xcode, OOP, POP, SwiftUI, and various other iOS frameworks. Proven record of writing new apps and refactoring complex legacy code to ensure fulfilment of functional requirements while strictly adhering to SOLID principles. Recognized for creating and integrating new features and UI designs to enhance iOS application performance and user experience.

- Portfolio includes over 35-40 projects (with 1 million monthly active users) created using Test Driven Development approach (TDD).
- Worked with international clients from different domains, including Nestle Healthcare Science Labs, USA to small start-ups.
- Strong proponent of SOLID Principles with TDD approach for writing testable, reusable, expandable and maintainable code

AREAS OF EXPERTISE

Software Development
Full Stack Web Development
Backend Development

Unit & UI Testing for iOS Native
HTML | CSS | JS | ReactJS | Node | Express
MongoDB | APIs | SEO |

Writing Tests First Approach
Cross Platform Code
SOLID Principles

TECHNICAL SKILLS

User Interfaces:	HTML5, CSS, Bootstrap, EJS, UIKit, SwiftUI
Apple Frameworks:	CoreLocation, CoreBluetooth, CoreNFC, PassKit, etc.
IDE Environment:	VS Code, Xcode, Xcode Cloud- CI/CD (AGILE environment with TDD approach)
Architecture:	MVC, MVP, MVVM, Modular & Cross Platform Approach using Platform-Agnostic Development
Web Development:	HTML, CSS, JavaScript, TypeScript, React JS, Node JS, MongoDB, Express, WordPress, PHP

WORK EXPERIENCE

Key Solutions | India

Sr. Full Stack Web Developer

April 2022 – July 2023

- Worked on creating Admin Dashboard for a Market Place solution for a Community Management website
- Worked on creating backend APIs using Node JS, Express and MongoDB for data persistence
- Used Typescript with React for creating reusable components
- Integrate new features into iOS application with Swift 5 updates and updated code to implement new frameworks (Combine).
- Build Geofencing plugin for Flutter Project to provide easy-to-use APIs, improve user experience, and optimize business efficiency.
- Implement CI/ CD for iOS and Android with Flutter dependency using Xcode Cloud and Bitbucket Pipeline.
- Apply AVKit Framework to create user interfaces and enable playing video stories from both server and local storage
- Perform Weekly app deployments on App Store and Play Store to enhance functionality, fix bugs, and drive feature improvements.

Impinge Solutions | India

Sr. iOS Developer

December 2020 – April 2022

- Built LifeQode (Strava iOS Clone) and wrote algorithm to track speed and remove pseudo readings for on-par accuracy with Strava.
- Designed Alchemi (crypto-currency app) to assist clients in identifying viable Blockchain solutions for crypto APIs and deployment.
- Developed GoCommunity (a generic community app) from initiation to user requirements fulfillment and deployment following MVVM pattern and strictly adhering to SOLID principles, fostering best-in-class user experience.
- Utilized Swift and Objective-C programming languages, industry best practices, and coding standards to enhance app performance.
- Supported client with integration of crypto card with NFC-chip in iOS app to authenticate transaction by writing code using Python.
- Created, tested, and deployed Student ID and Payment (Using Apple Wallet & NFC) app for students of European Universities.
- Analyzed and resolved Bluetooth streaming issues in Flutter app for client that integrated Agora SDK for audio and video streaming.

- Collaborated with Agora Dev Teams to debug and fix code, leading to improved streaming quality.
- Manage over 20 iOS apps via a single Xcode Project and codebase using "Targets" with minute controls over each different target.
- Implemented Lottie framework to render animations in real time to iOS application while simplifying design-to-code workflow.
- Worked on Apple Pay, Apple Wallet, and CoreLocation for clients in Europe to assess requirements and feasibility of new features.
- Researched, evaluated, and selected APIs for integration into app development projects, driving efficiency, scalability, and reliability.
- Trained junior developers on effective utilization of Swift programming language, enabling optimal iOS app development.

Punjab Kesari | India

Full Stack Web Developer (Freelance)

September 2019 – March 2022

- Managed and integrated Texture (formerly AsyncDisplayKit) to ensure responsive user interfaces for mobile application.
- Worked on Nari project on the backend for creating API's to be consumed by frontend using NodeJS and Express
- Implemented PromiseKit for asynchronous network calls via Reactive Swift style of programming, maintaining reusable code.
- Monitored and maintained mobile application for bug and crash-free experience for over 1 million active users.
- Conducted strategic analysis to identify and resolve complex issues on the Yum Recipes, streamlining video streaming process.
- Integrated Deep Linking and Push Notifications using Firebase Onelink, simplifying mobile app and generating significant ROI.
- Enabled faster development of high-performance and visually appealing UIs for mobile application using AsyncDisplayKit.

Infowiz | India

Sr. iOS Developer

November 2019 – November 2020

- Built real estate app for builders and customers via TDD (Test Driven Development) approach to write high-quality testable code.
- Created backend APIs to be consumed by front end on iOS and web
- Designed and implemented complex UI with 30+ unique cells on singlescreen, offering a richer and more engaging user experience using reusable React components.
- Utilized VIPER architect and Protocols to enable modular and scalable application development and improve code readability.
- Integrated UI and Unit Test cases for functions and UI elements to identify and prevent bugs in application development process.
- Researched, analyzed, and selected APIs for integration with mobile application projects, boosting overall work functionality.
- Partnered with QA team to delivery bug free app, driving user adoption.

Mobile Programming LLC | India

iOS Developer

January 2015 – March 2017

- Built multiplayer real-time quiz game for movie freaks by writing code, integrating APIs, and ensuring user-centered design.
- Designed a transit app for contactless payments, real-time train and bus tracking, multi-modal trip planner, and instant service alert by adding 256 Bit AES encryption to generate QR Codes and implementing payment gateways, including PayPal and Stripe.
- Developed enterprise app for Nestle Healthcare Science Labs, USA with offline caching with Realm, doctor appointment scheduling for salespersons, presentation mode for product demonstrations, and API Parsing from JSON to beautiful UI.
- Tested and debugged app to ensure high-quality code and fix complex issues, resulting in a significant reduction in app crashes.

EDUCATION

MBA: Information Technology, IEC University - India (2019)

B.Tech: IT, Punjab Technical University - India (2014)