Dhruv Upadhyay

Senior Software Engineer

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Dedicated Software Engineer with 9 years of experience in Swift, SwiftUI, and Objective-C. Passionate about optimizing app performance using native iOS technologies, including push notifications, network connectivity, and location services. Always eager to innovate and implement best practices to create cutting-edge mobile applications.

PROFILE SUMMARY

- **App Architecture & Development:** Extensive experience in Swift, SwiftUI, Objective-C, MVVM, MVC, and clean architecture, designing scalable and maintainable applications.
- **Performance Optimization:** Skilled in memory management, reducing app crashes, and improving FPS using Instruments, Xcode Profiler, and Core Animation.
- **API & SDK Development:** Expert in crafting well-documented SDKs, RESTful APIs, and third-party integrations such as Firebase, Stripe, and social login frameworks.
- **Concurrency & Multithreading:** Proficient in Grand Central Dispatch (GCD), Operation Queues, and RxSwift for optimized background processing, reactive programming, and smooth UI.
- **Networking & Offline Capabilities:** Deep understanding of URLSession, Alamofire, and offline data storage using Core Data, SQLite, and Realm.
- **Testing & Debugging:** Proficient in XCTest, UI Testing, TestFlight, and Debugging tools to ensure app stability and high-quality code.
- **Version Control & CI/CD:** Skilled in Git, SVN, GitHub Actions, TeamCity, Octopus, and GitLab for automated deployment and version management.
- **Animations & UI Enhancements:** Experience with Core Animation, UIKit Dynamics, SnapKit, and creating custom UI components.
- **IoT & Embedded Systems:** Developed BLE-based IoT applications, ensuring secure and reliable communication between devices.
- **App Store Deployment & Compliance:** Familiar with App Store Guidelines, App Transport Security (ATS), Privacy & Security Best Practices for smooth app submissions.
- **Team Leadership & Code Reviews:** Experience mentoring junior developers, conducting code reviews, and following best coding practices.
- **Agile & Scrum Methodologies:** Efficient in working with cross-functional teams using JIRA, Azure, and Confluence.
- **Client Communication & Problem Solving:** Ability to translate complex business requirements into technical solutions.

WORK EXPERIENCE

Senior Software Consultant   *Jun 2024 – Dec 2024*

ParentPay Group India Pvt. Ltd. – *Pune, Maharashtra, India*

- Designed and built high-quality iOS applications, ensuring optimal performance, responsiveness, and scalability.
- Introduced SwiftUI and MVVM architecture, enhancing app development and UI/UX.
- Led SDK and API integrations, streamlining third-party interactions and improving developer adoption.
- Spearheaded deployment and CI/CD automation using TeamCity and Octopus.

Senior Software Engineer   *Apr 2022 – Jun 2024*

Torinit Technologies Inc. – *Pune, Maharashtra, India*

- Developed and optimized iOS applications using Swift, SwiftUI, SnapKit, and MVVM architecture.
- Led BLE-based IoT projects, integrating connected devices into mobile applications.
- Improved project efficiency through Mock API integration, error handling, and code refactoring.
- Published high-performance applications on the App Store and ensured security compliance.

Senior Software Consultant
Aug 2019 – Mar 2022

E2logy Software Solutions Pvt. Ltd. – *Ahmedabad, Gujarat, India*
- Developed iOS applications using Swift, Objective-C, RxSwift and CocoaPods, implementing MVC and MVVM.
- Conducted code reviews, mentoring junior developers, and optimizing project delivery.
- Integrated IoT functionalities, enhancing app connectivity with embedded systems.
- Managed version control and CI/CD pipelines using GitLab and SVN.

Junior Software Engineer
Jul 2016 – Aug 2019

ITFactory.in – *Ahmedabad, Gujarat, India*

Developed and optimized iOS applications using Swift, SwiftUI, and MVVM architecture.
- Assisted in designing and developing iOS applications with Swift, Objective-C, and MVC.
- Gained hands-on experience in Java development, backend API integrations, and cross-platform solutions.
- Worked with SVN and GitLab for version control, maintaining a clean and structured codebase.

INTERNSHIP

Junior iOS Developer
Jan 2016 – May 2016

Hyperlink Infosystem – *Ahmedabad, Gujarat, India*

EDUCATION

M.Sc. in Information and Communication Technology (ICT)

Ganpat University • 2016 • CGPA: 7.98 (74.80%)

B.Sc. in Information Technology (IT)

Ganpat University • 2014 • CGPA: 7.07 (65.70%)

Diploma in Mechatronics

Gujarat Technological University • 2011 • CGPA: 6.33 (56.30%)

TECHNICAL SKILLS

Programming Languages: Swift, SwiftUI, Objective-C, C, C++, Java (Core), C# (Core)
Architecture & Design Patterns: MVVM, MVC, Clean Architecture
iOS Development: UIKit, WebKit, MapKit, CoreLocation, CoreData, AVFoundation, Combine, Async/Await
API & SDK Development: RESTful APIs, JSON, Third-party SDK integrations, BLE-based IoT
Testing & Debugging: XCTest Testing, Unit Testing, Debugging, Performance Optimization
Dependency Management: CocoaPods, Swift Package Manager
CI/CD & Version Control: Git (GitHub, GitLab), SVN, TeamCity, Octopus, GitLab CI/CD
Databases & Storage: Core Data, SQLite, MySQL, Firebase
UX/UI & Graphics: Figma, Sketch, Adobe XD, Photoshop, Zeplin
Operating Systems: macOS, Windows, Linux (Basics)
Development Tools: Xcode, Postman, Proxy man, Mockoon, VS Code

SOFT SKILLS

- Agile & Scrum Methodologies
- Team Leadership & Mentorship
- Problem Solving & Analytical Thinking
- Client Communication & Requirement Analysis

EXTRAMURAL ENGAGEMENTS

- Served as an **International Umpire** since June 2016
- Acted as an **Organizing Committee Member** for Table Tennis **Asian Cup** in September 2017
- Functioned as a **Technical Official** for State & Inter-District Table Tennis Championships in December 2017.

(Please refer to annexure for projects details)

Annexure: Mobile Application Development Portfolio

Gameya Module | *NEO App (Saudi National Bank)*

Tech Stack: SwiftUI, Swift, Backbase Framework
Summary: The Gameya module is a digital savings feature in the NEO app, modernizing traditional savings groups with automated contributions, payouts, and banking integration.
My Role:

- Developing the Gameya module using SwiftUI and Backbase framework.
- Designing and implementing an intuitive user interface for an enhanced financial experience.
- Ensuring smooth integration with NEO's banking infrastructure while optimizing performance.

School Gateway | *ParentPay Group*

Tech Stack: Objective-C, Swift, SwiftUI, MVVM
Summary: A school payment management app enabling parents to pay for school dinners and activities. Continuous enhancements focus on stability and performance.
My Role:

- Migrated the app from Objective-C to Swift and implemented SwiftUI for new features.
- Improved app stability by fixing critical bugs and optimizing performance.
- Explored Angular and SQL to expand full-stack development expertise.

Resource Management | *Internal Company Project*

Tech Stack: Swift, SwiftUI, MVVM
Summary: An in-house app designed to streamline resource allocation across departments for improved efficiency.
My Role:

- Implemented MVVM architecture to enhance maintainability and scalability.
- Utilized SwiftUI's dynamic components (@State, @ObservableObject, @Binding) for a responsive UI.

RAHR | *Real Estate App*

Tech Stack: Swift, UIKit, REST APIs
Summary: A real estate platform simplifying home buying, renting, and selling through advanced technology.
My Role:

- Developed reusable UI components using struct-based programming.
- Ensured seamless API data handling and dynamic design patterns.

Caddle | *Data Insights Marketplace*

Tech Stack: Objective-C, Swift, CoreData, REST APIs
Summary: A Canadian marketplace that rewards users for engaging with brands, providing valuable insights.
My Role:

- Led project independently, managing client communications.
- Migrated app from Objective-C to Swift for modernization and future-proofing.
- Integrated CoreData and APIs for real-time data interactions.
  Link: Caddle on App Store

Pace365 | *Project Management Solution*

Tech Stack: Swift, UIKit, SnapKit, REST APIs
Summary: A real-time project management app offering task tracking, resource allocation, and budget monitoring.
My Role:

- Developed role-based access and enhanced UI/UX using SnapKit for secure logins and seamless navigation.
- Led cross-functional teams to build a robust iOS solution.
  Link: Pace365 on App Store

REVIVAL Analytics | *IoT-based Oil Well Monitoring*

Tech Stack: Swift, Bluetooth, REST APIs

Summary: An IoT-based app for monitoring oil well performance and detecting leaks in real time.

My Role:

- Integrated custom Bluetooth devices to handle IoT data.
- Managed role-based access for secure user interactions.
  Status: Production completed, pending App Store release.

iPlusLiving by Fermax | *Property Management App*

Tech Stack: Objective-C, SQLite, REST APIs

Summary: A smart property management app for residential communities, managing tasks, payments, and security.

My Role:

- Implemented user role management for Residents, Contractors, and Sub-Contractors.
- Integrated VstarCam SDK for IPCam management, enabling secure camera access.
  Link: [iPlusLiving on App Store](#)

Flash Market | *E-Commerce Marketplace*

Tech Stack: Swift, UIKit, RxSwift, Firebase, Stripe API

Summary: An Australian online marketplace connecting businesses with consumers for seamless online shopping.

My Role:

- Enhanced UI/UX, purchase flow, and flash sales functionality using RxSwift for reactive data handling.
- Integrated Stripe for secure transactions and Firebase dynamic links for easy sharing.
  Link: [Flash Market on App Store](#)

Lendlease Plus | *Loyalty & Rewards App*

Tech Stack: Swift, UIKit, Firebase, MasterCard Payment Gateway

Summary: A lifestyle rewards app for shopping malls, offering loyalty points, deals, and e-vouchers.

My Role:

- Migrated APIs during Lendlease's CRM vendor transition.
- Integrated MasterCard Payment Gateway and Firebase push notifications.
- Developed "Pay Later with Relay" and a JavaScript-based web game.
  Link: [Lendlease Plus on App Store](#)

GDA (Ghaziabad Development Authority) | *Government App*

Tech Stack: Swift, Google Maps API, REST APIs

Summary: A government app providing information on property schemes, tenders, payments, and complaints.

My Role:

- Implemented Google Maps styling for zonal classification.
- Developed grievance reporting and request location features.
  Link: [GDA on App Store](#)

ChildCareCRM | *Relationship Management System*

Tech Stack: Swift, UIKit, REST APIs

Summary: A CRM solution for childcare centers, automating follow-ups and streamlining enrollment.

My Role:

- Developed dynamic registration forms and search functionality.
- Enabled email replies and history access within the app.
  Link: [ChildCareCRM on App Store](#)

Other Projects:

- Ajmal Perfume, Baci Fashion, Tahani Flowers, RojgarSetu *(Swift)*, DARS, Perfect2Go, HomeoCARE *(Objective-C)*