

Mirva Dudhagara

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SUMMARY

iOS Engineer with 2+ years of experience and 2 apps published with over 11K users. Focused on building scalable, high-quality iOS experiences using Swift and native iOS frameworks.

SKILLS

Languages: Swift, Kotlin, Python, JavaScript (ES6+), TypeScript, SQL

iOS Frameworks Patterns: SwiftUI, UIKit, Combine, MVC, MVVM, VIPER, CocoaPods

Backend & APIs: Node.js, Spring Boot, REST, GraphQL, WebSockets, OpenAPI, JPA

Databases: PostgreSQL, MongoDB, Firebase, MySQL, DynamoDB, Redis, SQLite

Cloud & DevOps: AWS, Docker, GitHub Actions, Vercel, Netlify

Testing & Tools: XCTest, Cypress, Postman, Git, GitHub, GitLab, Xcode

EXPERIENCE

iOS Engineer, Kelly School of Business

July 2024 – Present | Bloomington, IN

- Led the end-to-end development of MHAI-Pal, a **Swift-based** iOS app with **MVVM** architecture, deployed to **6,000+** active users across two universities to support mental health research.
- Architected scalable and concurrent data pipelines to collect 10M+ data points using **CoreBluetooth, CoreMotion, CoreLocation, and HealthKit**, leveraging Swift's **multithreading** capabilities.
- Ensured accurate sensor data collection and formatting through automated tests, live QA, and close collaboration with researchers—preventing data loss and enabling seamless backend ingestion.
- Built HIPAA-compliant data storage with **PostgreSQL** and Jetstream, with **AES-256 encryption** and **JWT-based authentication**.
- Drove a 30% increase in 7-day user retention via real-time dashboards and behavioral nudges, eliminating the need for **\$8,500** in recruitment-based engagement incentives.

Mobile Application Engineer, Hyphenova

Oct 2024 – Dec 2024 | Los Angeles, CA

- Launched the MVP of a cross-platform brand-influencer matching app using **React Native, TypeScript, and Node.js**, enabling beta access for **300+** creators and brands as part of pre-investor launch efforts.
- Integrated backend APIs with **Node.js and MongoDB**, and built a CI/CD pipeline using **AWS, GitHub Actions, and Docker** to automate builds and deployments.
- Rapidly iterated on UI and targeting flows during beta testing using **Firebase Analytics** and in-app feedback, resolving 30+ platform-specific issues.

iOS Engineer, AppIntel

Apr 2022 – Jul 2023 | Gujarat, India

- Shipped an iOS music therapy app to over **5,000 users**, delivering audio playback with **UIKit** and **MVC**, and optimizing for real-time state transitions and media responsiveness.
- Implemented **role-based authentication** with secure onboarding and access control for students and research coordinators.
- Integrated animation libraries via **CocoaPods** to create ad-like feedback loops, improving user engagement across playback states (play, pause, guided sequence, completion).
- Ensured cross-platform feature parity with Android and QA teams, supporting **A/B testing** workflows and successful launches on the App Store and Google Play.

PROJECTS

- **SwiftPocket | UIKit, CocoaPods, MVC, CoreAnimation:** Built a UPI payment prototype using UIKit and MVC, featuring animated transaction flows and real-time UI feedback using CoreAnimation. Implemented CocoaPods-based UI components and Luhn algorithm validation to improve accuracy of UPI and card input forms. [\[Link\]](#)
- **Weatherly | SwiftUI, Combine, OpenWeatherMap API, URLSession:** Developed a SwiftUI weather app with reactive, real-time forecast updates using Combine and OpenWeatherMap API. Emphasized modular views, clean state management, and adaptive UI design for light/dark mode. [\[Link\]](#)
- **CloudShare – Secure File Transfer | React, AWS Amplify, AWS S3, 2FA:** Created a secure file-sharing app with React and AWS Amplify, implementing 2FA authentication and encrypted S3-based storage. [\[Link\]](#)

EDUCATION

Master of Science - Computer Science, Indiana University Bloomington

Bachelor of Engineering - Computer Engineering, Gujarat Technological University