

KIRTIDHWAJ PATRA

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PROFESSIONAL SUMMARY

iOS Engineer specializing in high-performance mobile apps using Swift, SwiftUI, and C++. Experienced in building real-time systems and deterministic game engines with a focus on scalable, low-latency architectures. Strong in memory management, concurrency, and patterns like MVVM-C and Clean Architecture. Proven ability to optimize performance and ensure reliability. Currently pursuing an M.Tech in Computer Science, strengthening skills in algorithms and systems.

TECHNICAL SKILLS

Languages: Swift, Objective-C, C++, SQL, Go, Bash

iOS Ecosystem: SwiftUI, UIKit, Combine, AVFoundation, Core Data, WidgetKit, App Extensions, AutoLayout, PhotoKit, Core Image, Core Graphics, MapKit, Combine, Core Animation, Core Location, CocoaPods, CocoaTouch

Systems & Networking: WebRTC (P2P Audio), WebSockets, REST, GraphQL, Multi-threading, Concurrency, URLSession

Architecture: MVVM-C, Clean Architecture, SOLID

Developer Tools: Xcode, Swift Package Manager (SPM), Integration Testing, Xcode Instruments, Time Profiler, GitHub, GitHub Actions, Fastlane, TestFlight, Firebase (Crashlytics, Analytics)

Design: Figma, Adobe Creative Cloud, Lottie, Prototyping, Human Interface Guidelines (HIG), Design Systems

EXPERIENCE

Independent iOS Consultant (Freelance)

Apr 2025 – Present

iOS Engineer & Product Designer

Remote

- Designing and developing end-to-end iOS applications for multiple clients, from product design to scalable app implementation.

PRM Global Tech

Jun 2024 – Mar 2025

iOS Engineer

Bhubaneswar, India

- Engineered reusable SwiftUI components and MVVM-C modules for loyalty workflows, improving code reuse by 25%.
- Migrated legacy Objective-C networking and UI layers to Swift, reducing memory leaks by 15% and improving maintainability.
- Automated build, signing, and deployment pipelines using Fastlane and CI/CD, reducing release time and manual errors.
- Integrated Razorpay and PayU SDKs with secure transaction flows, handling failures, retries, and webhook validations.
- Optimized image caching and API handling using URLCache and threading, improving app launch and scroll performance.

The Vue Branding

Apr 2023 – May 2024

Product Designer (Mobile)

Hyderabad, India

- Led UI audit of a 6-year legacy app, aligning 180+ components with iOS 17 Human Interface Guidelines (HIG).
- Cut perceived latency from 600ms to 220ms by redesigning loading states, boosting task completion rates.
- Architected scalable Information Architecture via Coordinator Pattern, cutting design-to-dev friction by 90%.
- Managed high-fidelity prototype testing via TestFlight, using rollback-ready strategies for stable launches.

Pop Club

Oct 2022 – Mar 2023

Associate Creative Partner

Bengaluru, India

- Led end-to-end product design for a consumer iOS mobile app, focusing on intuitive user experiences.
- Defined and scaled the core brand identity system across mobile UI, design components, and visual guidelines.
- Redesigned onboarding journeys using structured A/B testing, improving Day-7 retention by 12%.
- Crafted high-quality visual interfaces, motion design, and micro-interactions to enhance usability and engagement.

KEY PROJECTS

Bhumitra - Odisha's land assistant

[App Store](#)

- Bhumitra is a land records and GIS platform for Odisha, integrating traditional Bhulekh data with modern map-based visualization to help users explore cadastral plots and access Record of Rights (RoR).

English Ji

[Github](#)

- Developed a real-time P2P language exchange platform using SwiftUI, C++, and WebRTC. Optimized audio buffer and echo cancellation parameters for low-bandwidth environments.

Tic-Tac-Moji

[App Store](#)

- TicTacMoji is a modern, vibrant, and interactive Tic Tac Toe game played entirely with emojis! Built with SwiftUI and a Node.js backend, it offers both local and real-time online multiplayer experiences with a premium feel.

EDUCATION

Master of Technology (M.Tech) in Computer Applications

Expected Apr 2026

KEC, Bhubaneswar • Focus: Systems Programming & Mobile Efficiency

Bachelor of Technology (B.Tech) in Computer Applications

2021

COEB, Bhubaneswar

CERTIFICATIONS & ACHIEVEMENTS

- Algorithmic Problem Solving:** Solved 500+ problems across LeetCode and GeeksforGeeks.
- Google UX Design Professional Certificate (2024):** Applied user-centered research to optimize interfaces.
- iOS App Development Bootcamp (Angela Yu, Udemy):** Comprehensive training in Swift, UIKit, and iOS app development.