

Timothy Yu

Senior iOS Engineer

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LinkedIn | GitHub | Portfolio

Summary

Senior iOS engineer with 10+ years shipping and maintaining production mobile applications across native iOS and React Native. Built real-time, stateful client flows using REST APIs and WebSocket, with ownership from product planning and API collaboration through production delivery, observability, and controlled rollout. Currently building Moments, an AI-native planning product that converts natural-language intent into validated, editable plans while keeping model output provisional, user-confirmed, and recoverable.

Technical Skills

iOS: Swift, UIKit, SwiftUI, Swift Concurrency, RxSwift, Combine

Cross-Platform: React Native, TypeScript, Expo, Fabric, TurboModules

Networking & State: REST APIs, WebSocket, real-time synchronization, MVVM

Observability & Performance: Firebase Crashlytics, Firebase Performance, Datadog, Elasticsearch logs, Slack alerts

Experimentation & Rollouts: Segment, A/B testing, in-house feature flags, Firebase Remote Config

AI Product Engineering: structured-output validation, user-confirmed persistence, failure and recovery states, scenario validation

Delivery: Xcode, Git, GitHub Actions, CI/CD, code review, production support

Experience

Crypto.com | Remote

Senior iOS Developer | Sep 2024 - Jul 2026

Crypto.com Onchain

- Owned Earn iOS delivery, maintenance, and refactoring; built staking, unstaking, reward-claiming, and position-management flows across multiple blockchain protocols.
- Delivered Buy & Swap by extending the fiat purchase journey with a user-initiated on-chain swap after the purchased asset reached the wallet.
- Partnered with Product Managers and Backend Engineers from planning and API discussions through production delivery for a self-custodial wallet serving approximately 20K daily active users.
- Used Firebase Crashlytics and Performance, Datadog, and Segment to monitor crashes, screen-rendering and API latency, investigate production issues, and support A/B testing.

Cronos App

- Worked exclusively in React Native and TypeScript during the Cronos App phase, building the Earn tab with Fabric and TurboModules in the New Architecture.
- Implemented wallet transaction signing and UserOperation construction; built Morpho deposit, withdrawal, and position-tracking flows; validated multi-step transactions on Cronos Testnet with mocked vaults.

San Orange Technology | Taiwan

Senior iOS Developer (Contract) | Jun 2024 - Aug 2024

- During a three-month contract, delivered KINTO iOS features for vehicle usage tracking, vehicle status, and in-app guidance with Product, Design, and Backend teams on a short delivery cycle.

OpenNet | Taiwan

Senior iOS Developer | Oct 2020 - Apr 2024

- Built real-time betting features for SportyBet, a sports betting platform serving approximately 100K daily active users.
- Implemented WebSocket synchronization for live odds, open bets, and betting history, and improved subscription management to prevent duplicated real-time updates across multiple betting slips.
- Used Firebase and Elasticsearch logs to investigate production issues across real-time betting flows.
- Adapted Android-first requirements into native iOS flows and migrated legacy modules to RxSwift and MVVM for maintainability and ongoing feature development.
- Built an internal mock server for UI development and automated testing, reviewed pull requests, and mentored junior iOS engineers.

Selected AI Product

Moments | In Development

AI-Native Planning Product | React Native, Expo, TypeScript

- Building an iOS-first product that turns natural-language intentions into typed, editable preparation plans through structured AI interpretation and validated schemas.
- Keeping model output provisional and separate from saved application data; only explicit user review and confirmation can persist a plan.
- Designing loading, cancellation, retry, fallback, and recovery states so AI failures preserve manual input and the complete non-AI path.
- Using scenario-based validation to check structured-output correctness, ambiguity handling, fallback behavior, and user-trust boundaries.

AI Engineering Tools

Tim Work | Open Source

Agent Workflow Tooling | Codex Skills, Lifecycle Hooks

- Created Context Handoff, Task ETA Tracker, and Moment Monitor to preserve acceptance criteria, forecast progress from observable milestones, and expose read-only live agent state.
- Added explicit approval boundaries, verification, progress visibility, and recovery paths so long-running AI-assisted work remains reviewable and reliable.

ProductDev | In Development

Local Automation Workbench | Swift 6, macOS, GitHub

- Building a local-first macOS workbench that observes repository automation through native Monitor, Runs, health, and recovery views.
- Keeping GitHub Issues and the existing scheduler authoritative while guarded actions, exact dry-runs, and durable receipts make automation reviewable and recoverable.

Additional Experience

Royal Technology | *Project Manager / iOS Developer* | Apr 2019 - Aug 2020

Served as primary iOS developer and project manager from client planning through App Store release; delivered production apps and coordinated Product, Backend, and Android teams.

Awesome Limited | *iOS Developer* | Apr 2018 - Jan 2019

Built China-market video streaming apps with encrypted HLS (m3u8) playback.

Lion Travel Information | *iOS Developer* | Aug 2017 - Apr 2018

Led a three-engineer iOS team responsible for enterprise applications, enterprise signing, internal distribution, and release coordination.

WeWork Technology | *iOS Developer* | Jan 2017 - Jul 2017

Independently shipped apps using barcode and QR-code scanning, vehicle rental, Bluetooth accessories, and media playback.

IdeaBus Technology | *iOS Developer* | Aug 2016 - Jan 2017

Independently built logistics and packaging-monitoring apps with Swift and SOAP APIs.

Education

Bachelor of Business Administration | National Taipei University | Taiwan