Anton Tyshko

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SUMMARY

Senior iOS Architect with 12+ years of experience engineering mission-critical mobile ecosystems for S&P 500 enterprise and Series A hardware startups. Expert in building resilient **Offline-First architectures**, **Low-Latency Audio/BLE engines**, and **Applied AI automation** tools. Proven track record of modernizing legacy codebases to **SwiftUI & Concurrency**, consistently delivering 99.9% crash-free stability and scaling products to global markets.

EXPERIENCE

Code Staffing
Houston, Texas, United States · On-site

Senior iOS Engineer | Oil & Gas Tech | EOG Resources (via Code Staffing)
September 2024 - Present

• *Lead mobile engineer for an **S&P 500 energy giant**, driving the modernization of mission-critical field operation apps used to manage multi-billion dollar infrastructure.*
• **Applied AI & Automation:** Engineered an **intelligent Auto-Fill system** using predictive modeling to automate complex data entry, significantly reducing manual input friction for field operators.
• **Offline-First Architecture:** Architected a resilient data synchronization engine using **Core Data** and background tasks, ensuring 100% data integrity for field operators in zero-connectivity environments.
• **Stability & Performance:** Led a "Rescue Mission" for a legacy Objective-C codebase, increasing the **Crash-Free User Rate to 99.9%** by resolving complex concurrency race conditions and memory leaks.
• **Modernization Strategy:** Migrated ~40% of core workflows to **SwiftUI** and **Async/Await**, reducing technical debt and accelerating feature delivery speed by **30%**.
• **Engineering Excellence:** Established mandatory CI/CD pipelines (Jenkins/Fastlane) and enforced strict Unit Testing coverage, transforming the release cycle from weeks to predictable days.

Neosensory, Inc.
Palo Alto, California · Hybrid

Lead iOS Engineer
April 2019 - September 2024

• **Low-Latency Audio Engine:** Engineered a critical audio-to-haptic pipeline with **<20ms latency**, rewriting the core **CoreBluetooth** layer to eliminate lag spikes and ensure seamless sensory substitution.
• **Failsafe DFU System:** Architected a robust Device Firmware Update mechanism, ensuring zero "bricked" devices during over-the-air updates for a fleet of thousands of active hardware units.
• **Scalable Architecture:** Refactored a monolithic codebase into a modular architecture to support multiple product lines (Buzz, Duo, Clarify), reducing time-to-market for new hardware launches by **40%**.
• **Legacy Modernization:** Led the strategic transition from UIKit to **SwiftUI & Combine**, enabling real-time visualization of complex neurotraining data streams without main-thread blocking.
• **Algorithm Engineering:** Ported raw scientific research models into performant native **Swift** algorithms, transforming theoretical bimodal stimulation concepts into a shipping consumer feature for Tinnitus treatment.
• **Hardware Automation:** Built a custom diagnostic suite to automate production line QA, replacing manual testing and preventing faulty vibration motor assembly before shipping.
• **User Retention:** Designed the "Scene" engine, allowing over **29,000 unique vibration permutations**, giving users granular control that directly correlated with higher engagement and retention metrics.

Provectus
San Francisco Bay Area · On-site

Senior iOS Engineer
March 2017 - April 2019

• **Project Rescue:** Took ownership of the stalled "Phrendly" dating app codebase, refactoring critical technical debt and driving the product to its first App Store launch within just **2 months**.
• **Greenfield Architecture:** Architected the "Everclear" marketplace application from scratch using **VIPER architecture**, ensuring code modularity and testability from day one.
• **Real-Time Engineering:** Engineered low-latency 1-on-1 video/audio calling and instant messaging features using **WebRTC**, **AVFoundation**, and **WebSockets**.
• **Complex Business Logic:** Implemented real-time session management and per-minute billing workflows for a two-sided advisor marketplace.
• **DevOps & Process:** Established stable **CI/CD pipelines** (Fastlane, Jenkins), transforming the development process from ad-hoc builds to a predictable monthly release cycle.
• **Growth & Analytics:** Designed seamless onboarding flows with universal deep links and integrated CleverTap SDK to track user acquisition and retention.
• **Stack:** Swift, VIPER, WebRTC, AVFoundation, WebSockets, CleverTap, Fastlane, Jenkins.

EDUCATION

Master's degree, Information Security
Naval Academy named after P.S. Nakhimov, Ukraine, Sevastopol.

SKILLS

Languages: Swift (Expert), Kotlin, Python, C++, Objective-C
Frameworks & Libraries SwiftUI, Combine, Async/Await, UIKit, Core Data, Core Bluetooth, AVFoundation, XCTest, WidgetKit, CloudKit
Core Competencies: Offline-First Architecture, Applied AI & Automation, Low-Latency Audio Processing, System Design & Modularization, CI/CD Pipelines
Tools & Platforms Xcode, Instruments (Allocations/Leaks), GitHub Actions, Fastlane, Jenkins, Jira, Figma