

YARON JACKOBY

MOBILE, IOT & APPLIED AI TECHNICAL LEAD

iOS | Android | Firebase | Connected Products | Software Architecture

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PROFESSIONAL SUMMARY

Mobile and connected-products technical lead with 20+ years of software engineering experience across iOS, Android, macOS, cloud-backed applications, real-time media, and hardware integration. Led mobile teams and designed production systems involving BLE, automotive protocols, reusable SDKs, performance-critical workflows, and scalable service layers. Completed a 210-hour AI Developer program at the Hebrew University of Jerusalem and currently develops an AI-assisted learning product while mentoring software engineering capstone students. Combines hands-on engineering depth with team, product, and public-sector leadership.

CORE EXPERTISE

Mobile & Apple: Swift, SwiftUI, UIKit, Objective-C, Combine, GCD, Core Data, AVFoundation, Core Location, macOS

Android & Cross-Platform: Kotlin, Java, Android SDK, Flutter; native and cross-platform mobile delivery

Connected Products: Bluetooth Low Energy (BLE), OBD2, device communication, low-level protocols, SDK development

Cloud & Backend: Firebase, Firestore, WebSockets, Go, Python, TypeScript, PHP

Quality & Performance: Instruments, memory and network profiling, XCTest, XCUITest, Crashlytics, concurrency

Leadership: Architecture, technical direction, team leadership, code review, mentoring, cross-functional delivery

PROFESSIONAL EXPERIENCE

Independent Mobile & AI Consultant | Product Developer | Israel | 2024 - Present

- Maytronics: Architected mobile-to-robot communication flows over Bluetooth Low Energy, supporting multi-robot connectivity and stable operation across varied environments.
- Built cloud-backed mobile components using Firebase, Firestore, and WebSockets, with a focus on responsiveness, accessibility, and maintainable architecture.
- Currently developing an AI-assisted learning product, combining mobile product design, cloud services, and applied AI capabilities.
- Published Drive-Mate, an iOS trip-logging application using location services, account authentication, cloud-backed data, and trip-verification logic.
- Mentor final-year software engineering students through capstone projects, guiding architecture, implementation planning, code quality, and delivery.

Tunity | Mobile Lead | Tel Aviv | 2018 - 2022

- Moved TV detection and video-verification work to the client using Core Image and Vision, cutting server-side compute load by 80% and delivering approximately 3x faster response.
- Led a cross-functional team of five and established code-review and XCTest practices for a scalable, maintainable mobile codebase.
- Defined mobile-backend integration requirements and abstracted complex networking behavior into reusable service layers.
- Expanded Crashlytics and custom logging coverage, increasing crash-free sessions from 75% to 95%.

PROFESSIONAL EXPERIENCE (CONTINUED)

Engie | **Senior iOS Developer** | Tel Aviv | 2016 - 2017

- Built the core iOS application from the ground up, using Bluetooth and OBD2 protocols to interpret real-time vehicle diagnostic data.
- Implemented event-driven background processing triggered by vehicle ignition, balancing reliable connectivity with battery efficiency.

Genband / fring | **Senior iOS Developer** | Petah Tiqwa | 2014 - 2016

- Architected a modular iOS SDK that abstracted complex audio/video communication protocols and enabled white-label deployment across 7+ customer implementations.
- Designed reusable application infrastructure that improved feature consistency and reduced development effort for new product launches.

ooVoo | **iOS Team Leader** | Nes Ziona | 2011 - 2014

- Led delivery of high-performance video conferencing on iOS, optimizing real-time streaming and buffer behavior under constrained networks.
- Managed Mac App Store integration and release workflows, maintaining consistency across desktop and mobile product capabilities.

Earlier R&D Experience | **Software Engineer** | Israel | 2001 - 2011

- Progressive R&D roles at Conduit, Integra5, Mavenir, and Battle Lab across communications, client/server systems, and production software.

PUBLIC LEADERSHIP

Kiryat Ono Municipality | **Deputy Mayor** | Kiryat Ono | Sep 2021 - Mar 2023

- Held the Social Services portfolio and worked with professional departments, residents, and external stakeholders in a regulated, high-accountability public environment.

EDUCATION & PROFESSIONAL DEVELOPMENT

- AI Developer Program, Hebrew University of Jerusalem - 210 hours
- B.Tech. in Software Engineering, Afeka Academic College of Engineering, Tel Aviv
- Graduate coursework toward an M.Sc. in Computer Science, IDC Herzliya (2009)

LANGUAGES

Hebrew: Native

English: Professional working proficiency