

Christopher Renshaw

Senior Mobile Software Engineer | Android | iOS | BLE & IoT | Hardware Integration

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[LinkedIn](#) | [Stack Overflow \(droid-chris\)](#)

PROFESSIONAL SUMMARY

Senior Mobile Software Engineer with 15+ years shipping native Android and iOS applications at scale. Deep hands-on expertise in Bluetooth Low Energy (BLE), IoT, firmware communication, medical-grade wearable integration, and embedded Android across healthcare, fitness, financial services, and maritime industries. Proficient in Kotlin, Swift, Jetpack Compose, SwiftUI, Core Bluetooth, and Android NDK. Track record of leading distributed mobile teams, authoring reusable BLE/firmware libraries, and delivering apps used daily by millions on Google Play and the App Store.

KEY CAREER HIGHLIGHTS

- Led Android and iOS development for UnitedHealth Group's Level2 — a billion-dollar digital health platform — shipping to 230,000+ members across 27 states, with 73% of eligible participants achieving clinically meaningful A1C improvement.
- Delivered the Android platform powering Octane Fitness's Smart Console across six commercial machine lines (XT-One, ZR8000, Lateral X, XR6000, XT3700, XT4700), contributing to \$500M+ in equipment sales; CES-featured.
- Built Android and iOS features for Fortune 500 financial apps — Charles Schwab (1.8M+ Android downloads) and Ameriprise Financial — covering real-time trading, secure transfers, mobile check deposit, Zelle, and biometric auth.
- Led Android team of 5 delivering offline-first shipboard apps (SEA_ID, MBARK, EZ Board) deployed across Carnival Cruise Line's fleet of 20+ ships.
- Authored custom BLE communication libraries, OTA firmware update pipelines, and real-time two-way hardware control integrations (Dexcom CGM, Fitbit, Polar, ANT+).
- Recognized Stack Overflow contributor (droid-chris): 141 answers reaching 2.1M+ developers globally; 113 answers in the android tag plus top contributions in gradle, android-studio, android-gradle-plugin, ios, and swift — deep expertise in mobile development and Android build tooling; 34 silver badges including 14x Necromancer.

CORE TECHNICAL SKILLS

Mobile: Android SDK, Android NDK, Android Auto, Wear OS, iOS, iPadOS, Embedded Android

Languages: Kotlin, Swift, Java, Objective-C, C#, JavaScript, TypeScript, HTML5, XML, JSON, PHP

Android Stack: Jetpack Compose, Hilt, Dagger 2, Coroutines, Flow, RxJava, Room, Retrofit, Volley, WorkManager, Material Design

iOS Stack: SwiftUI, UIKit, SwiftData, Core Data, Core Bluetooth, Combine, Alamofire, XCTest, XCUITest

Hardware, BLE & IoT: Bluetooth Low Energy (BLE), GATT services/characteristics, Core Bluetooth, Android Bluetooth stack, OTA firmware updates, real-time two-way machine control, ANT+, Polar, Dexcom CGM SDK, Fitbit SDK, Raspberry Pi, TCP/UDP, Wi-Fi, Ethernet, MQTT, embedded Linux, facial-recognition and document-scanning hardware

Security & Fintech: Biometric authentication, SSL/TLS, encryption, session management, PHI/HIPAA-aware handling, financial compliance, real-time market data streaming, Zelle, mobile check deposit, e-document signing

Architecture: MVVM, MVP, MVC, MVI, VIPER, Clean Architecture, Modularization, Offline-First

Backend & APIs: REST, SOAP, GraphQL, Firebase, AWS, Azure, Google Maps, Node.js, Java/Kotlin Spring Boot, .NET MVC, ASP.NET Web Services

Databases: SQLite, Room, Realm, Core Data, MySQL, SQL Server, PostgreSQL

DevOps & Testing: Git, Gradle, Jenkins, CircleCI, Azure Pipelines, Fastlane, Firebase Console, JUnit, Mockito, Espresso, XCTest, Appium, LeakCanary, Crashlytics, SonarQube, TDD, BDD, CI/CD

Methodologies: Agile, Scrum, Kanban, Remote Team Management, Engineering Mentorship

PROFESSIONAL EXPERIENCE

Director — INDUS Innovation Labs

Dec 2025 – Present

- Lead partners, designers, and contractors across client engagements and internal product initiatives; drive weekly sales pipeline and manage customer delivery.
- Establish software tooling, processes, and infrastructure to support business growth.

Acting CTO — Neuroregeneration

Dec 2025 – Present

- Own end-to-end mobile product development from architecture through deployment for a pre-launch client product.
- Architect and build native Android (Kotlin, Jetpack Compose, Room) and native iOS (Swift, SwiftUI, SwiftData) apps in parallel, integrating OpenAI API and Fish Audio for AI-driven features.
- Establish engineering infrastructure: source control, CI/CD, cloud accounts, and release pipelines for Google Play and the App Store.

Senior Android Developer (Lead) — Carnival Cruise Line

Jan 2024 – Oct 2025

- Led a distributed team of 4 Android developers and 1 QA engineer (India-based) delivering 3 mission-critical shipboard apps — SEA_ID, MBARK, EZ Board — deployed across Carnival's fleet of 20+ ships serving millions of passengers annually.
- Architected offline-first data sync so applications functioned reliably in unstable ship network environments — critical for zero-failure boarding processing thousands of passengers daily.
- Integrated Android apps with facial-recognition cameras and document-scanning hardware via specialized SDKs for automated identity verification.
- Owned code reviews, sprint planning, and release management while staying hands-on with architecture and critical features. Kotlin, Jetpack Compose, Room, Dagger 2, MVVM, Appium, Espresso.

Links: [Apps in use \(video\)](#) | [Carnival.com](#)

Senior Android Developer — Drive Innovations, Atlanta, GA

Oct 2022 – May 2024

- Designed and delivered digital solutions for drive-in theaters, including a React web portal and an Android Auto application for in-vehicle control.
- Built a custom low-latency audio streaming solution over UDP on Raspberry Pi, enabling high-quality local radio playback synchronized with on-screen content.
- Integrated Android apps with on-site routers and embedded streaming infrastructure, bridging mobile, web, and IoT hardware. Kotlin, Jetpack Compose, Hilt, Spring Boot, React.js, TCP/UDP.

Lead Mobile App Developer — Learn to Live, Minneapolis, MN

Dec 2021 – Oct 2022

- Led native Android and iOS development from the ground up for a behavioral health CBT platform supporting depression, anxiety, insomnia, and substance use treatment programs.
- Implemented biometric authentication, deep linking, and session management for secure PHI handling across employer, health plan, and university partnerships.
- Established mobile coding standards and CI/CD on Azure Pipelines from scratch; managed a fully remote team to launch both apps to the App Store and Google Play.

Links: [App Store](#) | [Google Play](#) | [learntolive.com](#)

Senior Android Developer — Sleep Number Corporation, Minneapolis, MN

Oct 2020 – Dec 2021

- Delivered modern UI refresh for the INVision Android application used in-store for bed fitting, aligning with Material Design standards.
- Supported React Native integration by implementing native Android plugin modules for the hybrid architecture.
- Integrated analytics (Adobe Omniture, Firelytics) and Firebase deep links for marketing attribution and user journey tracking.

Mobile Lead Developer — UnitedHealth Group R&D, Minnetonka, MN

Mar 2017 – Oct 2020

- Led Android and iOS development for Level2, UnitedHealth Group's flagship Type 2 diabetes platform — a billion-dollar digital health initiative launched to 230,000+ members across 27 states.
- Architected BLE and SDK-level integrations with Dexcom continuous glucose monitors (CGM) and Fitbit wearables, streaming real-time biometric data with zero data loss — critical for clinical-grade health monitoring.
- Built offline-capable data pipelines ensuring glucose readings were never lost during connectivity disruptions; 73% of eligible participants achieved clinically meaningful A1C improvement (avg 1.4 point reduction).

- Led 10+ mobile applications, standardized mobile architecture across Android and iOS teams, and mentored globally distributed engineers. Kotlin, Swift, AWS, Fitbit SDK, Dexcom CGM SDK, BLE, MVVM.

Links: [Level2 App Store](#) | [Level2 Google Play](#) | [mylevel2.com](#)

Android Development Lead — Octane Fitness, Brooklyn Park, MN

Jun 2014 – Mar 2017

- Led Android development for the Smart Console — a 10" embedded touchscreen shipped across six commercial fitness machine lines (XT-One, ZR8000, Lateral X, XR6000, XT3700, XT4700), driving \$500M+ in equipment sales worldwide.
- Authored custom BLE communication libraries from scratch enabling real-time two-way machine control — streaming calories, distance, speed, heart rate, and resistance data between the Android console and machine sensors/controllers.
- Built the OTA firmware update system; added ANT+ and Polar heart rate monitor support plus Wi-Fi/Ethernet connectivity.
- Migrated the codebase from Angular-based hybrid to fully native Android (Kotlin/Java), dramatically improving performance and hardware integration depth.
- Delivered CROSS CiRCUIT video coaching, Workout Booster, and custom media playback; the Smart Console was featured at CES and remains in production after Octane's acquisition by TRUE Fitness. Java, Kotlin, Android NDK, BLE, ANT+, SQLite, RxJava, Firmware OTA, Embedded Android.

Links: [Smart Console product page](#) | [octanefitness.com](#)

Android & iOS Developer (Freelance) — Cerberus General LLC

May 2012 – Jan 2018

- Delivered full-stack mobile and web projects for Fortune 500 and enterprise clients including Charles Schwab, Ameriprise Financial, and DC Group.
- **Schwab Mobile:** Built core features for Schwab Mobile (Android & iOS, 1.8M+ Android downloads) including real-time trade ticket for stocks, ETFs, options, and mutual funds with live quote streaming; interactive charting with technical indicators; mobile check deposit; Zelle; and biometric login.
- **Ameriprise Financial:** Led iOS feature development for Ameriprise's wealth management app — account dashboard, portfolio tracking, Total View, secure document collaboration, Message Center, bill pay, mobile check deposit, and e-document signing — built with SSL encryption, session management, and strict financial-compliance data handling.
- **DC Group D-Tech:** Led full-stack development of the UPS critical-power asset management platform — customer and technician Android apps, C# ASP.NET Web Service APIs, SQL Server database, and Google Maps-based Account Manager web app — contributing to DC Group's 98% customer satisfaction rate across the US, Canada, and Europe.

Links: [Schwab \(App Store\)](#) | [Schwab \(Google Play\)](#) | [Ameriprise \(App Store\)](#) | [Ameriprise \(Google Play\)](#) | [DC Group D-Tech](#)

EARLY EXPERIENCE

- Web Developer, Now Data Inc. — Dec 2010 – May 2011 | Program Consultant, Independent — Jun 2009 – Mar 2012

EDUCATION

B.S. in Computer Information Systems — Metropolitan State University