

# Colin Tucker

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Senior Android Engineer specializing in Kotlin, Jetpack Compose, Android architecture, performance, and end-to-end feature ownership for large-scale production apps. Proven track record delivering reliable, user-focused Android experiences across millions of devices in close collaboration with Product, Design, QA, and cross-functional engineering teams. 20+ years of software experience across mobile, enterprise, and real-time communication systems, with practical use of AI-assisted tools to ship, monitor and improve production mobile experiences.

## CORE SKILLS

Kotlin • Jetpack Compose • Android Architecture (MVVM / Clean) • Hilt • Coroutines / Flow • CI/CD • Firebase (Remote Config, Crashlytics, Analytics) • Performance Optimization • Accessibility • Cross-platform Collaboration • Retrofit / OkHttp • Unit Testing • Technical Documentation • Technical Leadership • AI-Assisted Development

## PROFESSIONAL EXPERIENCE

### Senior Android Engineer

Digital Turbine | Mar 2022 – Apr 2026

- Built and modernized Kotlin and Jetpack Compose features for carrier-branded Content Media apps on Google Play and OEM preload, including AT&T, Cricket, Blu, PWG, U.S. Cellular, MetroPCS, and other regional carrier partners, reaching millions of devices.
- Owned user-facing feature development from ambiguous requirements through design collaboration, implementation, QA, release, and post-release iteration.
- Led development of key product features including Age Verification, onboarding flows, toolbar modernization, widget enhancements, and settings experiences.
- Modernized a legacy Android codebase by migrating screens to Jetpack Compose and introducing Hilt dependency injection, improving maintainability and development velocity.
- Improved app startup time by 50% and build times by 35% through performance profiling, Gradle optimization, and GitLab CI/CD improvements.
- Used Firebase Remote Config, Analytics, and Crashlytics to support carrier-specific configuration, controlled feature rollout, behavioral measurement, crash investigation, and post-release product iteration.
- Implemented resilient client-side behavior for degraded network conditions, stale data, backend inconsistencies, and fragmented device environments.
- Led technical direction through code reviews, architectural guidance, mentoring, modern Android development practices, and AI-assisted development workflows that improved productivity, debugging, documentation, and code quality.

### Founder / Android Engineer

FangJet LLC | Jan 2021 – Present

- Designed and built an accessibility-focused Android launcher for elderly and visually impaired users, emphasizing large touch targets, simplified navigation, safety workflows, voice commands, and reliable behavior across devices.
- Developed a prototype Android app using OpenCV and the Android NDK to process live camera input, isolate whiteboard content, and stream the enhanced output to conferencing platforms.

## **Staff Software Engineer / Android Team Lead**

**ThinkRite Inc** | Mar 2011 – Jan 2021

- Led Android development for a Twilio-based video app, owning real-time features end-to-end; collaborated with iOS engineers on shared customer flows.
- Designed and implemented real-time communication features that maintained reliable behavior under poor network conditions, device state changes, and failure scenarios.
- Established Android engineering standards around MVVM architecture, modular feature development, code review, unit testing, and CI/CD, improving maintainability and increasing unit test coverage from 20% to over 80%.
- Mentored engineers, conducted interviews, and led knowledge-sharing sessions.

## **Senior Systems Engineer**

**VoiceRite Ltd** | Oct 2001 – Mar 2011

- Developed multi-platform voicemail and telephony applications embedded in IBM Lotus Notes and Sametime, with Android, BlackBerry, and desktop client versions.
- Planned, delivered, and supported global installations and upgrades of enterprise messaging systems across 30+ countries.
- Built and supported systems using SIP, ISDN, QSIG, DB2, and WebSphere in high-reliability, production-critical telecom environments.

## **Software Engineer Intern**

**University of Colorado** | May – Sep 2000

- Developed a web-based system for embedding complex, interactive mathematical notation.

## **EDUCATION**

### **University of East Anglia (UK)**

BSc Hons in Computer Science (2:1), 2001

- Completed a year abroad at the University of Colorado Boulder, attaining a 3.88 GPA and earning an internship with the Department of Applied Mathematics.

## **INTERESTS**

Mountain Biking • Trail Running • Hiking • Triathlons • Chess