

Chris Rich

Senior Android Engineer - Strategic, Adaptive, Collaborative

<https://www.linkedin.com/in/ricodevx/>

www.RicoDevX.com

<https://github.com/ricodevx>

Seattle, WA, USA

SUMMARY

Results-driven Senior Software Engineer with 12+ years of experience in scalable mobile development, system optimization, and team mentorship. Expertise in Android architecture, performance tuning, and security best practices. Proven ability to lead teams, solve complex technical challenges, and drive cross-functional collaboration to deliver high-impact, user-centric solutions. Passionate about innovation, efficiency, and building resilient, high-performance applications.

CORE QUALIFICATIONS

Leadership & Team Development

Build, mentor, and lead high-performing engineering teams, fostering collaboration, innovation, and accountability.

Mobile Engineering & Scalability

Design and optimize scalable, high-performance Android applications, ensuring security, reliability, and user engagement.

Strategic Execution & Agile

Align technical execution with business goals, leveraging Scrum, sprint planning, JIRA, and Confluence for efficient delivery.

Operational Excellence & Security

Implement CI/CD pipelines, automated testing, and mobile security best practices, ensuring performance and compliance.

Cross-Functional Collaboration & Problem Solving

Partner with product, design, and business teams to tackle complex technical challenges with practical, data-driven solutions.

TECHNICAL SKILLS

Programming Languages & Frameworks

Kotlin, Java, C++, JSON | Android SDK, Jetpack Compose, XML Layouts

Architecture & Design

MVVM, MVI, MVC, MVP, Clean Architecture (SOLID) | Dependency Injection (Koin, Dagger, Hilt) | Modularization, Feature Modules, Dynamic Delivery

Concurrency & Performance

Coroutines, Flows, StateFlow, SharedFlow, Multi-threading, AsyncTask, Handlers, WorkManager, RxJava

Data Management & Networking

Room Database, SQLite, SharedPreferences, DataStore | Retrofit, OkHttp, RESTful APIs, GraphQL | Firebase (Analytics, Authentication, Cloud Messaging, Firestore, Remote Config, Crashlytics) | XML, JSON

UI & UX

Jetpack Compose, ViewBinding, DataBinding, ConstraintLayout, MotionLayout, Material Design Components, Custom Views & Canvas API, Accessibility (a11y), Animations & Transitions

Background Processing & System Services

WorkManager, JobScheduler, Foreground Services, Broadcast Receivers, AlarmManager, Content Providers

Media & Sensors

CameraX, ExoPlayer, OpenGL, Bluetooth, NFC, GPS, Motion Sensors

Security & Permissions

Biometric Authentication, EncryptedSharedPreferences, Play Integrity API, App Signing, Runtime Permissions

Development Tools & Build Systems

Android Studio, IntelliJ | Gradle, Maven, Kotlin DSL | Lint, ProGuard, R8 | Android Emulator, Firebase Test Lab

Testing & CI/CD

JUnit, Mockito, Espresso, UI Automator, Robolectric, Screenshot Testing | Unit, Integration, and End-to-End Testing | Continuous Integration/Continuous Deployment (CI/CD) with Jenkins, GitHub Actions, Bitrise, Firebase App Distribution

Version Control & Collaboration

Git, GitHub, GitLab, SVN | Code Reviews, Paired Programming, Mentorship

Agile & Best Practices

Agile, Scrum, Test-Driven Development (TDD), Clean Code, SOLID Principles

WORK EXPERIENCE

Lead Android Developer - Identity and International Markets - eBay App

Ebay - March 2017 - March 2024

Global Mobile Development & Scalability

Led a team of Android developers in delivering high-impact mobile features optimized for international markets. Focused on scalability, localization, and security, ensuring seamless experiences for diverse user bases. Delivered key international products, including eBay Motors Finders, AfterPay, ZipPay, and eBay Plus, leveraging Agile methodologies, SOLID principles, and MVVM architecture with Kotlin, Jetpack Compose, and the Android SDK.

Technical Strategy & Security

Conducted in-depth technical deep dives and feasibility analysis to support Product and UX teams, enabling informed decision-making. Actively researched and mitigated potential security vulnerabilities by implementing secure coding best practices and collaborating with platform security and architecture teams.

Authentication, Device Security & Fraud Prevention

Designed and delivered critical authentication features, including Google Authentication, Facebook Authentication, and Firebase integrations, ensuring seamless and secure user access. Implemented device authentication and account recovery mechanisms to enhance user security and prevent unauthorized access. Developed bot mitigation strategies to inhibit automated attacks.

Code Quality, Maintainability & Testing

Ensured high code quality and maintainability by applying SOLID principles, design patterns, and rigorous code reviews. Leveraged tools like Android Studio and Lint to enforce best practices and improve code efficiency. Developed and implemented comprehensive testing strategies using JUnit, Mockito, and Espresso, ensuring the reliability, stability, and robustness of delivered features.

Agile Leadership & Team Collaboration

Led sprint planning and task delegation, ensuring efficient team collaboration and alignment with CI/CD pipelines. Worked within Agile cross-functional teams, actively participating in daily stand-ups, sprint retrospectives, and fostering a culture of continuous improvement and code excellence.

Lead Android Developer - Zoom+Care App

Zoom+Care - June 2016 - December 2016

Cross-Platform Mobile Development & Feature Parity

Led the development of the Zoom+ mobile application, ensuring a seamless and consistent user experience across both Android and iOS platforms. Spearheaded efforts to analyze and replicate iOS app features, achieving full functional and design parity for the Android application.

Feature Engineering & Performance Optimization

Designed and implemented critical features, including a scheduler, clinic finder, provider finder, account management, and live chat, ensuring high performance and intuitive user interactions. Optimized application performance and user engagement through rigorous testing, leveraging JUnit and Espresso.

Collaboration & Scalable Architecture

Worked closely with UX/UI designers, backend developers, and product managers to align development strategies and maintain a cohesive, high-quality user experience. Focused on scalability, code maintainability, and adherence to industry best practices, applying SOLID principles, MVVM architecture, and integrating industry-standard libraries like Retrofit.

Mobile / Full Stack Software Engineer - MyDAT Trucker App (Now called DAT One)

DAT Solutions - November 2015 - June 2016

Cross-Platform Mobile Development & Feature Expansion

Played a key role in developing the MyDAT Trucker application for both Android and iOS, enhancing user experience and functionality tailored for truck drivers. Ensured feature parity across platforms, delivering a seamless and intuitive interface.

Full-Stack Development & Domain-Specific Solutions

Designed and implemented end-to-end features, integrating client-side interfaces, middleware services, and server-side logic to ensure high performance and seamless data flow. Delivered a comprehensive set of tools that provided truck drivers with real-time access to truck stops, rest areas, and fuel stops, optimizing their travel efficiency.

Scalability, Security & Performance Optimization

Utilized industry-standard technologies and frameworks to build a scalable, maintainable, and secure application. Led efforts in performance optimization and rigorous testing, leveraging Android Studio, Xcode, RESTful APIs, and backend frameworks to deliver a robust and reliable mobile experience.

Cross-Functional Collaboration & Development Alignment

Worked closely with UX designers, backend engineers, and product teams to synchronize development efforts, ensuring consistent functionality and user experience across platforms. Focused on maintainability and best practices in both Android and iOS development to enhance long-term product stability.

Android Software Engineer – New Technology Group

Intel Corporation - February 2012 - November 2015

Wearable Technology & Fitness Application Development

Led a team of five developers at Intel Corporation to design and develop cutting-edge fitness applications and wearable device functionalities, ensuring high performance and user engagement. Played a key role in shaping the MICA wrist-worn wearable, delivering a suite of applications, including Messaging, Calendar, Horoscope, and more, enhancing the product's market appeal and usability.

Hands-Free & Automotive Innovations

Spearheaded the development of hands-free operation capabilities for in-car Android applications, significantly improving user experience, safety, and accessibility in automotive environments. Developed a Hands-Free News Listening application, advancing interactive voice-driven experiences for wearable devices.

End-to-End Android Application Development

Led the complete development lifecycle for multiple Android applications, including three apps for the Oakley Radar Pace head-worn wearable device and various applications for MICA, such as Calendar, Messaging, Launcher, Fashion News, Horoscope, and Near Me. Focused on delivering scalable, user-centric solutions that enhanced functionality and user satisfaction.

CERTIFICATIONS

- Valid WA Driver's License
 - Coursework: Android Developer Nanodegree (Udacity), Android Internals I & II (Marakana)
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EDUCATION

Oregon Institute of Technology

B.S. in Software Engineering Technology

Feb 2009 - June 2012