
Daniel Covault

Mobile Engineer | Lead Android Developer | Android Architect | Full Stack Developer
Bachelor's Degree in Computer Science

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Professional Summary

Android Development Expertise:

- Seasoned Android Developer with 13+ years dedicated to designing and building mobile applications using Kotlin and Jetpack Compose. Adept at implementing architectural patterns such as MVVM, MVI, and Clean Architecture, ensuring robust, scalable and maintainable solutions.

UI/UX and Performance Optimization:

- Skilled in optimizing app performance, achieving a 30% enhancement through efficient architectures and intuitive UI/UX designs. Proficient in Material Design 3 principles and leveraging Jetpack Compose to create modern, responsive interfaces.

Proficient in Kotlin Ecosystem:

- Expertise in Kotlin Flow, StateFlow, and Coroutines, enabling optimized app performance and streamlined development. Strong background in multi-threading with Coroutines and RxJava to handle asynchronous tasks. Experienced in integrating RESTful APIs and utilizing Jetpack components such as LiveData, ViewModel, and Paging 3.

Cross-Platform Development:

- Hands-on experience in cross-platform frameworks like Flutter and React Native, ensuring seamless and consistent user experiences across Android and iOS platforms.

Cloud Integration and CI/CD:

- Extensive experience integrating cloud services, including Firebase, AWS, and Google Cloud, with proficiency in Firestore, RealtimeDB, Cloud Functions, and Firebase Cloud Messaging. Skilled in CI/CD automation using GitHub Actions, Jenkins, and CircleCI.

Data Handling and Security:

- Expert in managing large datasets using Room, Paging 3, and Lazy Loading for optimal performance. Proficient in mobile security protocols such as OAuth 2.0, JWT, and Biometric Authentication to safeguard user data.

Testing and Debugging Expertise:

- Comprehensive knowledge of automated testing frameworks like JUnit 5, Espresso, and Mockito, ensuring high test coverage and app reliability. Experienced in debugging tools like Android Profiler, Leak Canary, and Firebase Performance Monitoring for addressing memory leaks, improving load times, and fixing ANRs.

Advanced Technologies:

- In-depth understanding of 5G technology and IoT protocols such as Bluetooth Low Energy (BLE) and NFC, incorporating cutting-edge connectivity features. Expertise in dependency injection with Hilt and Dagger 2 for modular and testable code.

Agile and Team Collaboration:

- Active contributor in Agile environments, working within Scrum teams to deliver high-quality projects while driving continuous process improvements.

React Native and Flutter Contributions:

- Experienced in debugging and troubleshooting React Native applications, writing unit tests with Jest, and integrating RESTful APIs with Flutter using Futures and Streams.

Core Technical Skills

Programming Languages: Kotlin, Java, Python, Groovy, Kotlin DSL, XML

Android Platforms: Android Studio, Firebase, Android JetPack Compose, Android SDK, Content Resolvers, RecyclerView Layout Manager, RecyclerView Animator, Location Services, Content Providers, JobScheduler, Espresso, Broadcast Receiver, Services, Activities, LiveData, ViewModel, Room DBFrameworks: Firebase Push Notifications, Firebase Firestore, Google Places, Google Play Services, Google Maps API, Volley, Retrofit, Junit, Kotlin Coroutines, Kotlin Flow.

Android Development: Constraints, Handlers, Threads, Loopers, Loaders, Java, RxJava, Picasso, Glide, Coil, Custom Android Views, ListView, RecyclerView, Widgets, Fragments, Bundle, Intents, Runtime Permissions, PendingIntent, Repository Layer, Single Source of truth, Cache, Offline Mode

Architectures and Design Patterns: MVC, MVP, MVVM, CLEAN, MVI, Builder, Factory, Singleton, Adapter, Observer

Servers & Databases: SQL, Firebase Firestore, SQLite PostgreSQL, MySQL.

APIs & Security: REST APIs, JSON, OAuth, Authentication Protocols

IDEs: Android Studio, IntelliJ, SourceTree, Github Desktop

Issue Tracking & Project Management Tools: JIRA, Jenkins, JUnit, Unit Testing, Agile, Scrum, Git, SVN, GitHub, BitBucket, GitLab, Travis, Confluence, GitHub Actions

Tools: DDMS, ADB, LeakCanary, Firebase, Firebase Crashlytics, ART, Bluetooth Low Energy, Test Driven Development, Continuous Integration, Android Profiler.

Third-Party Frameworks/APIs: Glide, Google Console APIs, Samsung SDK, Logger, Dagger, Moshi, Robolectric, LeakCanary, Robotium, NFC (Near field communication) technology, Retrofit, OkHttp, Http Logging Interceptor, Certificate Pinning.

Backend Development: Java (Spring Boot), PHP (Laravel).

Frontend Development: JavaScript, Angular, HTML, CSS.

Cloud & DevOps: Docker, Amazon Lightsail, DigitalOcean (VPS).

Networking: CCNA Cisco.

Professional Experience

Lead Android Engineer

Tech Consulting, Atlanta, GA.

Nov 2024 - December 2025

Project Summary: I led the development of a secure and user-friendly mobile banking app, implementing modern architecture like MVI and leveraging Jetpack Compose for seamless, responsive UI. I optimized critical features such as bill payments, mobile deposits, and biometric authentication, ensuring top-tier performance, accessibility, and data security. Additionally, I enhanced cross-platform consistency with Kotlin Multiplatform Mobile (KMM) and streamlined CI/CD pipelines to accelerate delivery.

- Coordinate the architecture, design, and development of the Goldman Sachs Mobile Banking App, delivering a secure and user-friendly experience for banking customers.
- Transition the app's architecture from MVVM to MVI, enabling efficient data stream handling and improved Jetpack transformations.
- Used Figma to review design systems, component libraries, spacing, typography, and interaction specs, translating UX/UI designs into reusable Jetpack Compose components while ensuring responsiveness, accessibility, and cross-device consistency.
- Incrementally modernize the codebase by adopting Jetpack Compose, Kotlin Coroutines, Flows, Channels API, Paging, Navigation
- Component, AndroidX, and the Jetpack Crypto Library.
- Develop and optimize mobile deposit functionality with image capture and validation, enhancing the check deposit experience.
- Design and implement Goldman Sachs Bill Pay, allowing users to manage and pay bills securely with external financial institutions.
- Integrate secure login methods, such as fingerprint and facial recognition, utilizing Android biometric APIs to ensure seamless and secure authentication.
- Establish and refine CI/CD workflows using Jenkins and GitHub Actions, boosting deployment frequency by 50% and reducing integration issues.
- Build modern, declarative UI components with Jetpack Compose, enhancing UI consistency, performance, and maintainability.
- Optimize app performance with Jetpack components like Room, ViewModel, and WorkManager for storage, UI management, and background tasks.
- Conduct code reviews and mentor team members through pull request feedback, ensuring adherence to clean coding standards and Android best practices.
- Add accessibility features like Switch Access, TalkBack, and additional gesture support, using the Accessibility Test Framework to
- ensure content labels, clickable items, and contrast compliance.
- Leverage the Flow API for reactive programming, ensuring real-time responsiveness to asynchronous data streams and UI events.
- Integrate tools for FICO® score tracking and financial health management, enabling users to monitor their credit scores and budgets effectively.
- Refine Git workflows, introducing techniques like squash and amend to maintain a clean commit history.
- Utilize tools like Crashlytics and JIRA to diagnose and resolve critical bugs related to balance checks, pending transactions, and accessing past PDF statements.
- Implement Kotlin Multiplatform Mobile (KMM) solutions, reducing cross-platform development efforts by 40% while maintaining feature consistency between iOS and Android.
- Implement in-app analytics tracking with Adobe Analytics, providing actionable insights for stakeholders.

- Lead automated testing efforts with Espresso and Robolectric, emphasizing Test-Driven Development (TDD) for code quality and app stability.

Packaging Engineer

Beauty Manufacturing Solutions Corp

February 2024 – April 2024

- Coordinated packaging product launches by managing design, testing, and line trial execution.
- Collaborated with Engineering teams to ensure accurate equipment setup and production readiness.
- Maintained technical documentation and supported quality investigations and corrective actions.
- Trained machine operators and optimized machine setup and operational processes.

Supported rapid prototyping initiatives and tracked project milestones for launch updates.

Freelance Full Stack Developer

Business Inventory Management Application

February 2022 – December 2023

- Designed and developed a full-stack inventory management system used by multiple food businesses.
- Built backend services using Java and PostgreSQL to support scalable data management.
- Implemented Docker-based environments for development and deployment consistency.
- Deployed and maintained the application on Amazon Lightsail cloud infrastructure.
- Developed an Angular-based web interface and an Android mobile application for operational access.

Solution Analyst / Mobile Engineer

Everis Peru (NTT DATA)

June 2019 – December 2021

- Designed, developed, and maintained Android mobile banking applications using Java and Kotlin.
- Integrated RESTful APIs and JSON-based services, including third-party libraries.
- Improved application security by implementing authentication protocols such as OAuth.
- Enhanced application performance, stability, and usability through bug fixes and optimizations.
- Collaborated with cross-functional teams using Clean Architecture, MVP, and MVVM patterns.
- Supported incident reduction through continuous monitoring, analysis, and reporting.

Programmer Analyst

Limasoft, SAC

February 2019 – May 2019

- Developed and maintained web applications using Laravel (PHP), JavaScript, HTML, and CSS.
- Implemented new modules and enhanced existing functionalities based on business requirements.
- Resolved software incidents, performed system maintenance, and supported production environments.
- Documented technical processes, prepared incident reports, and created user manuals.

Education

Bachelor's Degree in Computer Science

Universidad de Oriente – Venezuela

2009 – 2016

Intensive English Program & Business English Program

Excel English Institute

2022 – 2023