

Zachary McDanal

Senior Senior Android Software Engineer

SUMMARY

Engineer with a B.Sc. in Mobile Development and over 4 years of hands-on experience in Android development, exhibiting a strong command of Kotlin, Jetpack Compose, and modern software engineering practices. Demonstrated expertise in app architecture modernization, reducing build times by 40%, enhancing app stability with comprehensive testing, and leading migration to scalable, modular architectures. Proven track record of impactful project management, having developed 600+ public-safety apps, and improved essential communication tools with a robust VoIP/messaging suite resulting in a substantial increase in user satisfaction. Competent in cross-functional team leadership, Agile methodologies, and continuous integration/delivery systems, making them a valuable asset for cutting-edge software development teams.

TECHNICAL SKILLS

Main Technical Skills	Kotlin (6 yr.), Java (5 yr.), Android APIs (5 yr.), Project Management (2 yr.), Jetpack Compose (4 yr.)
Programming Languages	Java (5 yr.), Kotlin (6 yr.), Swift
Android Libraries and Tools	Android APIs (5 yr.), Jetpack Compose (4 yr.), Kotlin (6 yr.)
SDK / API and Integrations	Android APIs (5 yr.)
Project Management & Administration	Project Management (2 yr.)
iOS Libraries and Tools	SwiftUI

WORK EXPERIENCE

Android Software Engineer / Project Manager, Public-Safety Apps Development

Duration: Jan 2021 - Dec 2022

Summary: Developed and maintained over 600 public-safety apps for law enforcement and emergency services across the nation.

Responsibilities: Managed Android app development projects, built custom applications while improving UI consistency, and significantly reduced development time.



Technologies: Kotlin, Compose

Android Software Engineer / Project Manager, International Association of Fire Chiefs App

Duration: Specific dates not provided within Jan 2021 - Dec 2022 timeframe

Summary: Created a feature-rich application tailored for the needs of the International Association of Fire Chiefs.

Responsibilities: Took charge of the Android app development from conceptualization to deployment, ensuring high-quality feature set and user experience.

Technologies: Kotlin, Compose

Android Software Engineer, Architecture Migration to Kotlin + Jetpack Compose

Duration: Jan 2023 - Oct 2025

Summary: Led the migration of an existing architecture to a modern, modular Kotlin plus Jetpack Compose system, significantly cutting down build times.

Responsibilities: Oversaw the migration project, ensured application scalability and performance, and reduced build times by 40%.

Technologies: Kotlin, Jetpack Compose

Android Software Engineer, VoIP and Messaging System

Duration: Jan 2023 - Oct 2025

Summary: Engineered a reliable VoIP and messaging system to enhance call reliability and user experience.

Responsibilities: Developed robust messaging and VoIP capabilities, cut down production crashes, and improved system stability and reliability.

Technologies: Kotlin, Jetpack Compose, VoIP/SIP

Android Software Engineer, Unit Testing Enhancement

Duration: Jan 2023 - Oct 2025

Summary: Implemented comprehensive unit testing to fortify app stability by significantly reducing production crashes.

Responsibilities: Focused on extensive unit testing to enhance application stability and decrease crash rates.

Technologies: JUnit, MockK, Turbine

Android Software Engineer, Media Compression and MMS Optimization

Duration: Jan 2023 - Oct 2025

Summary: Optimized media compression and MMS delivery processes, resulting in reduced upload times and lower bandwidth consumption.

Responsibilities: Optimized media handling functionalities, thereby saving on upload time and reducing bandwidth requirements for users.



Technologies: Kotlin, Jetpack Compose

Developer (Personal Project), BlindDate App

Duration: Dates not provided

Summary: In progress development of a Jetpack Compose Android application that aids couples in choosing where to dine by randomly selecting a restaurant based on shared preferences.

Responsibilities: Currently developing an innovative app to help couples make dining decisions.

Technologies: Kotlin, Jetpack Compose

EDUCATION

- **Bachelor of Science - Mobile Development - iOS & Android**
- Remote course taught by industry professionals at Full Sail University. Started with 30 students and graduated with 3 others. The program included weekly deadlines.
- Mar 2018 - Nov 2020

CERTIFICATION

- **Leadership Development Lvl 3**
- Aidt certification without a specified duration
- **Certified ScrumMaster**
- Udemy course for Scrum Master certification
- No specific duration provided

