

# 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

<b>Main Technical Skills</b>	Kotlin (6 yr.), Java (5 yr.), Android APIs (5 yr.), Project Management (2 yr.), Jetpack Compose (4 yr.)
<b>Programming Languages</b>	Java (5 yr.), Kotlin (6 yr.), Swift
<b>Android Libraries and Tools</b>	Android APIs (5 yr.), Jetpack Compose (4 yr.), Kotlin (6 yr.)
<b>SDK / API and Integrations</b>	Android APIs (5 yr.)
<b>Project Management &amp; Administration</b>	Project Management (2 yr.)
<b>iOS Libraries and Tools</b>	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**
- Airt certification without a specified duration
- **Certified ScrumMaster**
- Udemy course for Scrum Master certification
- No specific duration provided

