

Alokkumar Rathava

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Result-driven **Android Developer** with **3+ years of expertise in Java and Kotlin, Jetpack Compose, and Android SDK**, delivering scalable, high-performance mobile applications. Proficient in **MVP/MVVM architecture, RESTful API and SOAP integration, and mobile security (OAuth 2.0, Android Keystore, data encryption)**. Experienced in **unit testing (JUnit, Espresso, Robolectric)** and CI/CD pipelines for automated deployment. Spearheaded the design of high-performance mobile applications using **Java and Kotlin**, achieving a 40% improvement in app load times through efficient architecture practices with MVP/MVVM frameworks.

TECHNICAL SKILLS

- **Android Development:** Kotlin, Java, Jetpack Compose, Android SDK, and Material Design.
- **Architecture & Design Patterns:** MVP/MVVM, Clean Architecture, and Dependency Injection (Dagger/Hilt), Object Oriented Programming, software design patterns.
- **Networking & APIs:** RESTful APIs, SOAP Concepts, Retrofit, Volley, WebSockets, and GraphQL.
- **Security & Data Protection:** Android Keystore, OAuth2.0, OpenID, Data Encryption.
- **Testing & Debugging:** Unit Testing (JUnit, Mockito), UI Testing (Espresso, Robolectric).
- **Performance Optimization:** Android Profiler, Firebase Performance Monitoring.
- **CI/CD & DevOps:** Bitrise, Jenkins, GitHub Actions.
- **Development & Collaboration:** Agile (Scrum/Kanban), Git, Code Reviews, Cross-functional teamwork (Product, UI/UX, Backend, QA).

PROFESSIONAL EXPERIENCE

Android Developer | GlobalDWS Corporation | *January 2024 – Present*

- Collaborated closely with product owners, **UI/UX designers**, and **QA teams using Agile Methodologies** throughout the **Software Development Life Cycle** to refine requirements, conduct design reviews, and ensure seamless delivery of application features.
- **Developed and deployed an Android-based social engagement application** for robot-assisted care in senior homes, improving resident interactions and overall quality of life.
- **Designed and implemented an intuitive UI/UX tailored** for elderly users, ensuring accessibility with large fonts, voice commands, and simplified navigation using **Android libraries** and **Material Design principles**.
- **Integrated face recognition and speech recognition** features to enable residents to engage in personalized conversations.
- **Implemented advanced robotic navigation** capabilities using SLAM SDK and additional navigation SDKs, allowing robots to autonomously navigate care home facilities while avoiding obstacles.
- **Secured application data** by implementing OAuth authentication and data encryption, ensuring compliance with industry best practices and data protection regulations.
- **Successfully deployed** in multiple senior care facilities, including Trinity Village and Ivan Franko homes, demonstrating significant improvements in resident engagement and facility operations.

Seneca College | Information Technology Specialist | August 2022 – December 2023

- Implemented technical support within flexible learning environments, ensuring reliable operation of Linux-based systems and networked infrastructure.

Enlighten Infosystems Pvt LTD | Junior Android Developer | December 2020 – August 2021

- Developed Android applications using Java and Kotlin, ensuring efficient UI rendering and data synchronization.
- Integrated SOAP/RESTful APIs via Retrofit, handling large datasets efficiently.
- Implemented MVP/MVVM architecture, improving modularity and maintainability.
- Architecture & Design Patterns: MVP/MVVM, Clean Architecture, Dependency Injection (Dagger/Hilt), Object Oriented Programming, Android application architecture, software design patterns
- Optimized app launch speed by 50% using background threading (Coroutines).

EDUCATION

Seneca Polytechnic – Toronto, Canada | Diploma in Computer Programming | Jan 2022 – Dec 2023

- Coursework: Android Development, Object-Oriented Design, Algorithms & Data Structures, Java.

The Maharaja Sayajirao University of Baroda – India | Diploma in Computer Engineering | Aug 2017 – Apr 2020

- Coursework: Android Development, Networking, Operating Systems, Java and Kotlin.

PROJECTS

Senior Care Social Engagement & Autonomous Navigation Application (GlobalDWS)

- **Tech Stack:** Kotlin, Jetpack Compose, Android SDK, SLAM SDK, Speech recognition, Face Recognition, Retrofit, Firebase, OAuth2.0.
- **Developed and deployed a robot-assisted Android application** for senior care facilities, leveraging AI-driven interactions to enhance resident engagement.
- **Implemented an intuitive, accessible UI/UX** (large fonts, voice commands) and SLAM SDK-based navigation for autonomous robot movement and obstacle avoidance.
- **Integrated face recognition and speech-to-text** for personalized user experiences, securing data with OAuth 2.0, Android Keystore encryption, and Firebase security rules.

Eat-Treat E-commerce Application with Secure Payment & AI-Powered Food Recommendation

- **Tech Stack:** Java, Jetpack Compose, Android SDK, Firebase, Flask, Python, SciKit-Learn, ML Kit, Retrofit, OAuth2.0, Android Keystore, Room Database, Google Map SDK, Google Pay API, NFC, Stripe.
- Developed an **AI-powered campus canteen e-commerce platform**, offering secure food ordering, real-time tracking, and intelligent meal recommendations.
- Built a **custom recommendation model** using Flask and Scikit-Learn, deploying via a Pickle (pkl) file for efficient integration.
- Implemented secure **payments with Stripe** and Google Pay (Android Keystore, OAuth 2.0) while leveraging Google Maps SDK for real-time delivery and pickup tracking.