

# Jaskaran Singh

📍 Toronto, Ontario    ✉ jaskaran.chana1302@gmail.com    ☎ 437 986 0298    in jaskaranchana

## Summary

Results-driven Android Developer with 4+ years of experience in developing secure, high-performance mobile applications. Proven expertise in Kotlin, Java, and Android SDK, with hands-on experience in building scalable applications aligned with industry best practices. Strong advocate of Agile methodologies, test-driven development, and performance optimization to enhance user engagement and security.

## Technologies

**Languages:** Java, Kotlin, Dart, Python, C, C++, SQL, MATLAB

**Architecture:** MVVM, MVC, MVP, Client-Server, Modular Architecture

**Frameworks:** RESTful API, Flask, Flutter, Jetpack Compose

**Testing and QA:** JUnit, Espresso, Mockito, Robolectric, Appium, Selenium

**Android Development:** Material Design, Retrofit, Room, Data Binding, LiveData, ViewModel

**Security and Development Practices:** OAuth, Android Keystore, Data Encryption, Code Reviews, CI/CD

**Tools:** : SonarQube, Check Marx, Postman, Jenkins, Google Firebase Services, MongoDB, PostgreSQL

**Version Control & Collaboration:** Git, GitHub, Bitbucket, JIRA, Confluence, Slack, Microsoft Office Suite

## Education

**University Of Windsor, Canada**

*Sep. 2022 - Dec. 2023*

Masters in Electrical and Computer Engineering

**Dr. B.R Ambedkar National Institute of Technology, India**

*Aug. 2015 - May 2019*

Bachelor of Technology in Electronics and Communication

## Experience

**Advanced Coder - AI Training**

*Remote*

*Outlier*

*Jul. 2024 - Current*

- Developed and optimized complex algorithms in Python, Kotlin, Java, C, and C++ to enhance AI chatbot training with Reinforcement Learning, improving model accuracy, scalability, and reducing biases.
- Engineered advanced prompt designs, implemented robust testing frameworks, and conducted detailed code reviews to expose model limitations, fine-tune AI performance, and uphold industry standards for reliability.

**Software Developer** | Talentica Software Private Limited

*Pune, India*

*Rupeek – Online Gold Loan Application*

*Jan. 2022 - Jul. 2022*

- Led the development of 20+ features for the Rupeek Application, emphasizing scalability and code excellence within the micro-service-based architecture (MVVM), covering the entire user journey from sign-up to appointment booking.
- Integrated Firebase services (App Indexing, Firestore, Auth, Cloud Functions, Remote Config, and Crashlytics), resulting in an 18% boost in installs and enhanced app performance.
- Optimized Flutter modules with Riverpod and Provider for seamless state management, achieving a 17% app performance boost through coroutines and efficient memory management.
- Participated in code reviews and contributed to CI/CD pipelines using Jenkins.
- Migrated code seamlessly from Kotlin to Flutter, showcasing cross-platform development expertise.

**Senior Software Engineer** | Mahindra Comviva Limited

*Bangalore, India*

*Mobiquity Pay – Customer and Business User Application*

*Sep. 2019 - Jan. 2022*

- Contributed to 30+ features in Mobiquity Pay Application, leveraging micro-service architecture and Kotlin Multiplatform for enhanced agility, accelerated time-to-market, and maximized value in dynamic digital business models.
- Attained 20% crash reduction through continuous testing, Firebase Crashlytics optimization, and security audits with Check Marx.
- Implemented push notifications (FCM) with deep linking, boosting user engagement by 15% within the application.
- Conducted code reviews, enforced best practices, and improved code quality through standards adherence.

### *Payplus – Merchant Payment Application*

- Drove PayPlus development, delivering 20+ features for unified payment checkout, ensuring seamless online payments.
- Crafted high-performance apps with expertise in memory, dependency injection, Material Design, and concurrency.
- Collaborated with stakeholders, product managers, UI designers, back-end experts, and support teams to develop innovative applications and ensure quality in all phases of application development.

## Projects

---

### **Life-capture Notes**

- Built using MVVM architecture, a Flutter-based smart note-taking app that allows users to create notes in text, voice, and image formats while providing location-based reminders and recommendations. It enhances user experience with AI-powered note summarization, automatic note generation, and personalized suggestions.experience.
- *Technologies:* Flutter, Dart, Python, Jetpack Compose, PostgreSQL, AI Integration, Google Maps API

### **Anti-Drowsiness Driver Assistant**

- Developed a drowsiness detection system that enhances road safety by alerting users in real-time. Integrated intelligent suggestions for nearby amenities and implemented comprehensive data collection for improved user assistance. Designed to help reduce drowsiness-related road accidents by 25%.
- *Technologies:* Python, OpenCV, AI Model Training, Data Analysis

### **Video on Demand Desktop Application**

- Developed a desktop application for video streaming similar to Hotstar, enabling seamless media playback. Integrated socket programming for efficient video streaming and implemented a robust database connection to ensure smooth data management.
- *Technologies:* Java, Socket Programming, JDBC, MySQL, Client-Server Architecture

### **IoT-based Smart Home and Security System**

- Developed a smart home automation and security system using IoT, enabling remote device control, real-time data exchange, and enhanced security features. Designed for scalability and user-friendliness, the system ensures efficient monitoring, data analysis, and improved security through automated alerts and event tracking.
- *Technologies:* Raspberry Pi, Python, PubNub, MongoDB, Twilio, PIR Sensors, Reed Switches