

# RUSHI CHAVAN

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## SUMMARY

Senior Android Engineer with 6+ years of experience developing secure, scalable mobile applications and AI-integrated client solutions. Specialized in Kotlin, Jetpack Compose, MVVM, and Android system-level development (AOSP, AIDL). Proven track record in delivering PCI-DSS- and EMV-compliant fintech platforms, with strong focus on mobile signal integrity, fraud prevention, and real-time risk detection. Built client-side agents to interface with backend AI/ML models, enabling behavioral analytics, anomaly tracking, and intelligent decisioning. In parallel, engineered AI pipelines for Retrieval-Augmented Generation (RAG), document intelligence, and risk modeling using Python, FastAPI, and Pydantic. Passionate about secure APIs, scalable architecture, and cross-functional development across mobile, data, and ML teams.

## SKILLS

**Programming Languages:** Kotlin, Java, Python, JavaScript, C/C++, XML

**Frameworks & Libraries:** Jetpack Compose, Ktor, Flask, React Native, PyTorch, Pandas, Django, HuggingFace, OpenCV, LangChain, NLP, GenAI

**Android Development:** Jetpack (ViewModel, Room, Paging, WorkManager, Navigation), Material 3, ConstraintLayout, MotionLayout, KMP, CMP, Coroutines, RxJava, RxKotlin, AIDL (IPC), Coil, Bluetooth, Google Maps, ExoPlayer, Payment SDKs (Semi/Fully Integrated), Crashlytics

**Architecture & Patterns:** MVVM, MVP, MVI, Clean Architecture, Multi-Module

**Databases:** Firebase, SQLite, RoomDB, MongoDB, Vector DB (FAISS, Chroma), DynamoDB

**Cloud & API Development:** AWS, Azure AI, REST APIs, GraphQL, Swagger, JWT, MQTT, AWS IoT

**Security & Code Quality:** PCI-DSS, EMV, OAuth, SSL/TLS, JWT, Encryption, Secure API Design, Certificate Pinning, Root Detection, OWASP Mobile, Android Keystore, ProGuard/R8, SonarQube

**Testing & Performance:** JUnit, Mockito, Espresso, Robolectric, UI Testing, Integration Testing, Memory Profiling

**CI/CD & DevOps:** Git, GitHub, Bitbucket, Jenkins, Docker Compose, Fastlane, CI/CD Pipelines

**AI/ML & Agents:** RAG pipelines, Pydantic agents, LLM orchestration, PDF extraction, FastAPI

**Tools & Platforms:** Android Studio, VS Code, ADB, Emulator, Postman, JIRA, Confluence, Notion

## EXPERIENCE

**WeVend (FinTech)** - [wevend.com](https://wevend.com) (Parent: <https://monexgroup.com/>)

Toronto, ON

Lead Mobile Engineer

APRIL 2024 – Present

- Led development of 7+ secure, high-performance Android apps for payment terminals and smart vending, including fully PCI-DSS- and EMV-compliant platforms used in field fintech operations.
- Integrated and stabilized third-party SDKs and legacy codebases, resolving 100+ critical issues and reducing crash loops by 30% across production environments.
- Architected telemetry modules and real-time signal monitoring hooks for incident detection, reducing average response time and improving fraud visibility.
- Delivered encrypted payment workflows over AWS IoT using MDB and Ethernet protocols, implementing secure APIs and tamper-resistant device communication in partnership with Fiserv.
- Migrated legacy apps to Jetpack Compose and MVVM, improving code maintainability, UI responsiveness, and reducing release bottlenecks.
- Collaborated with sales and ops teams to embed field-user feedback into agile releases, enhancing feature adoption and increasing contractor satisfaction by 20%.

**BC5 (TRACE)** - <https://trace-horizon.eu/>

Remote, EU

Senior Android Developer

MAY 2022 – APRIL 2024

- Developed modular Android components for an EU-funded risk intelligence platform, integrating secure data pipelines and mobile-side telemetry for agent-based fraud analytics.
- Built production-grade features using Jetpack Compose, Navigation Components, and Kotlin Coroutines, with real-time responsiveness optimized for field data capture.
- Integrated RESTful APIs and third-party libraries to enable on-device data syncing with cloud-hosted ML models, contributing to AI-driven decision workflows.
- Delivered detailed architectural blueprints for mobile SDKs handling risk signals, balancing performance, modularity, and compliance with security standards.
- Mentored junior developers and led Kotlin code reviews focused on thread safety, secure API handling, and lifecycle-aware resource management.
- Streamlined agile execution via Git, Confluence, and JIRA workflows, improving sprint consistency and reducing cycle times for ML-integrated feature releases.

**It Gurus Software (Access group)** - <https://www.theaccessgroup.com/en-sg/products/peoplehr/>

Remote, UK

Android Developer

JAN 2019 – APRIL 2022

- Designed scalable Android modules for workforce and payroll systems, translating business logic into reliable, production-grade mobile features.
- Refactored legacy codebase using Kotlin and Koin, reducing boilerplate by 30%, improving runtime stability, and accelerating service initialization.
- Integrated Firebase Cloud Messaging and REST APIs, enabling real-time updates and secure data sync across distributed systems.
- Drove quality through rigorous testing and JIRA-based defect resolution, closing 150+ tickets and ensuring zero critical issues in production.

## Visa Ecom Multiservice

Android Developer

Maharashtra, IN  
APRIL 2016 – DEC 2018

- Developed a secure, high-performance financial app with full compliance to certification standards, ensuring safe transactions in production.
- Optimized in-house QR SDK and implemented scalable solutions using Dagger, Retrofit, Jetpack Compose, and MVVM, improving transaction efficiency by 80%.
- Conducted security-focused code reviews and bug fixes, reducing vulnerabilities and contributing to a 30% drop in production issues.

## CERTIFICATION

*Android App Security: A Structured Approach | React Certification | Docker Developer Certification | Android Development Essential | Kotlin for Android Best Practices | Intermediate Kotlin for Android Developers | Agile Development Practices | Secure Coding and Design Best Practices Java (PCI-DSS)*

## EDUCATION

### George Brown College

*Postgraduate Certificate in Applied Artificial Intelligence*

- Proficient in AI/ML with experience in ML, NLP, computer vision, and model deployment using Python and TensorFlow

### Amravati University

*Bachelor's Degree in Computer Engineering*

- Strong foundation in IT domains: programming, networking, cybersecurity, and database management.

## PROJECT

### Secure Payment Application

- **Tech Stack:** Java, Kotlin, Jetpack Compose, XML, MVVM, Dagger/Hilt, NFC, Bluetooth, MDB Protocol, Serial Communication, AWS MQTT, AWS IoT, PCI-DSS Compliance

### Smart Vending Machine App

- **Tech Stack:** Kotlin, Jetpack Compose, Coroutines, Retrofit, RoomDB, AWS IoT, MDB, Ethernet Protocol

### Workforce Management & Payroll App

- **Tech Stack:** Kotlin, MVVM, Koin, RoomDB, Firebase Cloud Messaging, GraphQL, CI/CD

### AI-Powered Compliance & Tracking dApp

- **Tech Stack:** Kotlin, MVVM, Navigation Components, RxJava, WorkManager, RoomDB

### Car Wash Application

- **Tech Stack:** Kotlin, Jetpack Compose, Retrofit, Coil, Firebase, Google Maps API

### Terminal API Application

- **Tech Stack:** Kotlin, Jetpack Compose, Coroutines, Socket Communication, Payment API Integration

### Gumball Machine App

- **Tech Stack:** React Native, TypeScript, Redux, Bluetooth Communication, Dyamod IOT

### Financial Transactions & QR Payment App

- **Tech Stack:** Kotlin, Jetpack Compose, Coroutines, Dagger, Retrofit, Custom QR SDK

### E-Commerce Application

- **Tech Stack:** Kotlin, Jetpack Compose, KMP, Retrofit, Firebase, Stripe API, RoomDB
- Built a secure e-commerce platform for seamless online shopping and payments.

### Social Media Application

- **Tech Stack:** Kotlin, XML, Coroutines, Firebase, WebSockets, GraphQL
- Developed a real-time social media platform with user profiles, chat, and multimedia sharing.
- Implemented WebSockets for live messaging and Firebase Firestore for scalable data storage.

### Semi-Integrated Payment Library

- **Tech Stack:** Kotlin, Jetpack Compose, Coroutines, Dagger/Hilt, Secure API Communication, EMV Compliance
- Developed a semi-integrated SDK to facilitate secure communication between payment terminals and Android applications.
- Implemented encryption, tokenization, and EMV standards, ensuring PCI-DSS compliance.