

ARMIN MEHRAN

Senior Android Developer | Agentic AI Developer

Toronto, ON | +1-416-887-4647 | a.mehran@gmail.com | linkedin.com/in/arminmehran

PROFESSIONAL SUMMARY

Senior Android Developer with over 10 years of experience delivering secure, high-performance digital products for Tier-1 financial institutions and large-scale enterprises. Expert in **Kotlin, Java, and modern Android architectures (MVVM/MVI)**. Proven track record in modernizing legacy monolithic codebases into modular, testable architectures. Deeply committed to building accessible, customer-focused mobile experiences that balance security with seamless user performance.

TECHNICAL SKILLS

- **Languages:** Kotlin (Expert), Java (Expert), RxJava, Coroutines, SQL, Python.
- **Android Stack:** Jetpack Compose, Dagger/Hilt, Retrofit, OkHttp, CameraX, Room, Android SDK.
- **Architecture & Patterns:** MVVM, Clean Architecture, Repository Pattern, SOLID principles.
- **Tools & DevOps:** Android Studio, Git (Bitbucket/GitHub), JIRA, Confluence, CI/CD (GitHub Actions), Unit Testing (JUnit/Mockito).
- **Specialized:** Accessibility, Mobile Security (Encryption, Biometrics), SDK Development, RESTful API Integration.

WORK EXPERIENCE

Senior Mobile & Agentic AI Developer | 12230721 Canada Inc, Toronto, ON Dec 2023 - Feb 2026

Architected and built end-to-end AI solutions bridging cloud-based agents with mobile edge execution.

- **Key Initiative: Enterprise-Grade Agentic Backend:** Engineered a serverless Python orchestration backend using **FastAPI** and **CrewAI**, designing multi-agent workPlows for complex reasoning tasks. Exposed agent outputs to mobile clients via secure REST endpoints.
- **Key Initiative: "EdgeGen" Privacy-First Chat App:** Developed a fully offline Android chat application leveraging **Google Gemini Nano** and **MediaPipe**. Achieved **100% ofXline inference**, eliminating cloud latency and data egress costs while guaranteeing user privacy.
- **Key Initiative: Assistive Computer Vision Pipeline:** Built a real-time object detection system for visually impaired users using **TensorFlow Lite** and **CameraX**, optimizing for low battery consumption.
- **Research & Methodology:** Conducted performance benchmarking between Cloud LLMs (GPT-4) and On-Device SLMs to optimize trade-offs between accuracy, latency, and thermal constraints.
- **Enterprise Standards:** Maintained strict **CI/CD pipelines** and automated testing using **GitHub Actions**, mirroring enterprise-grade workPlows to ensure code quality and maintainability. **Engineering Excellence:** Established enterprise-grade **CI/CD pipelines** (GitHub Actions) and enforced strict **unit testing** and code quality standards, mirroring the workflows required for flagship banking applications.

Android Developer | Tata Consultancy Services Canada Inc, Toronto, ON Sep 2020 – Dec 2023

- **Banking Domain Expertise:** Contributed to the flagship mobile banking app for a Tier-1 Canadian bank, ensuring all features met **OSFI security standards** and AML/ATF regulatory requirements.
- **Legacy Modernization:** Led the refactoring of a large-scale monolithic **Java** codebase into a modular **Kotlin + Hilt** architecture, reducing technical debt by 55%.
- **Collaborative Delivery:** Partnered with Product Owners to refine requirements in JIRA/Confluence and implemented **unit tests (JUnit/Mockito)** to ensure feature stability.
- **Code Quality:** Enforced high standards through rigorous code reviews in **Bitbucket**, focusing on performance optimization and catching potential security vulnerabilities before production.

Mobile Application Developer | AP1, Toronto, ON Feb 2018 – Sep 2020

- **SDK Development:** Designed and maintained a scalable Android SDK using **Coroutines and Retrofit**, reducing third-party partner integration time by 50%.
- **Cross-Platform Alignment:** Spearheaded a migration to React Native for specific utility modules while maintaining core native Android performance for hardware-level BLE (Bluetooth Low Energy) interactions.

Software QA Developer | Cloud Constable, Toronto, ON May 2017 – Sep 2017

- **Unit Testing & Quality:** Implemented automated testing pipelines for AI-based services, focusing on high-precision threat detection and memory stability in C++ and Android environments.

SELECTED PROJECTS

- **BeMyEyes AI Assistant:** Built an assistive vision tool for visually impaired users using **CameraX and accessibility best practices**, highlighting a commitment to inclusive design.
- **Kotlin Code Reviewer:** Developed an AI-powered tool to automate the detection of code smells and architectural violations in Android projects.

CERTIFICATIONS & EDUCATION

- **M.Sc. & B.Sc. in Computer Engineering** – Azad University
- **The Complete Agentic AI Engineering Course** – Udemy (2025)
- **Google Cybersecurity Professional Certificate** (2024)
- **Meta Mobile Developer Professional Certificate** (2025)