

TONY TOMY

Senior Android Engineer

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PROFESSIONAL SUMMARY

Senior Android Engineer with 7 years of experience building scalable mobile applications using Kotlin, Jetpack Compose, and Clean Architecture. Strong expertise in Kotlin Coroutines, Flow, Hilt, and modular architecture with experience integrating hardware devices, BLE communication, high performance media processing and AR integrations. Experienced in leading development, mentoring engineers, and delivering end to end mobile solutions including backend integrations and AI assisted development workflows

PROFESSIONAL EXPERIENCE

Trenser Technology Solutions Pvt Ltd

Senior Software Engineer

01/2023 - Present

- Owned Android technical direction, architecting scalable solutions with Jetpack Compose and Clean Architecture for a 5+ engineer team.
- Established and promoted Android development practices across projects, improving consistency in implementation, code reviews, and team onboarding.
- Built a MediaCodec-based video processing engine, reducing rendering time by ~40% and improving memory efficiency through hardware-accelerated processing.
- Engineered the BLE communication layer between Android and Unity, enabling real-time data exchange for video streaming and connected hardware interactions.
- Integrated Shopify and Gigya SDKs for authentication, user management, and secure session handling, alongside custom WebView and JavaScript bridge integrations for web-to-app functionality.
- Led development for a tablet-based kiosk app, including architecture and external hardware integration in a controlled environment.
- Mentored 4+ junior developers through technical guidance and code reviews, contributing to team interviews and onboarding.

Technical Fingers

Software Engineer

10/2019 - 12/2022

- Developed 3+ Android applications including loyalty platforms and food delivery systems, enhancing customer engagement and repeat usage for local businesses.
- Built full-stack mobile solutions integrating Android apps with backend systems using PHP and Firebase.
- Designed and published 3+ Unity-based mobile games with monetization using AdMob, AppLovin, Unity Ads, and IronSource.
- Implemented multiplayer game logic using Firebase, including real-time gameplay synchronization and tournament features.
- Developed AI-based bot logic for game opponents, improving user engagement and gameplay experience.
- Integrated and tested REST APIs using Postman and Firebase services, handling real-time data flows and analytics tracking.

EDUCATION

Mount Carmel College

Bachelor of Computer Applications (BCA)

TECHNICAL SKILLS

Mobile Development: Android (Java, Kotlin) • Jetpack Compose • Flutter • Unity (C#)

Architecture: MVVM • Clean Architecture • Hilt • Kotlin Flow • Coroutines • WebSockets • Security Best Practices • System Design

Backend & APIs: FastAPI (Python) • Firebase • REST APIs

CI/CD & DevOps: GitHub Actions • Azure DevOps • GitLab CI/CD • Xcode Cloud • Jenkins • Automated Mobile Build & Release Pipelines

Build Tools: Gradle • Dependency management • Build optimization

UI/UX: Material Design • Responsive layouts • Adaptive UI

Tools & Platforms: Git • Postman • Android Studio • Play Console • App Store • Firebase Cloud Messaging (FCM)

Testing: Unit Testing • Integration Testing • Test-Driven Development

Performance: Android Studio Profiler • LeakCanary • Performance Optimization • Memory/CPU Profiling

KEY PROJECTS

TradeMaster

<https://play.google.com/store/apps/details?id=com.techwonders.trademaster>

Built a Flutter-based trading companion application focused on trade analysis, journaling, and portfolio planning.

- Implemented trade journaling, analytics dashboards, position sizing calculator, SIP calculator, and trading reminders.
- Built CSV, JSON, and image-based trade import functionality with performance analytics and export to Excel/CSV.
- Leveraged AI tools (ChatGPT, Gemini, Cursor) for code generation, debugging, refactoring, and documentation. Reviewed and validated AI-generated code before production.
- Set up GitHub Actions workflows for automated Android and iOS build generation across platforms.

Mint Investing

<https://play.google.com/store/apps/details?id=com.mintinvesting.mint>

Built cross-platform trading recommendation application using Flutter and FastAPI, providing real-time market insights and user-focused features

- Implemented Razorpay and Apple In-App Purchases, enabling subscription-based revenue model.
- Built KYC verification and e-sign workflow, ensuring compliance with financial regulations.
- Integrated Firebase analytics and crash reporting to monitor user behaviour and improve app stability.
- Tested and debugged REST APIs using Postman, validating request/response flows and API integrations during mobile development.
- Configured GitLab CI/CD workflows for Android staging and release builds based on Git branching policies, with Xcode Cloud for iOS builds; used Jenkins for backend development workflows.
- Successfully deployed and maintained apps on both Play Store and App Store with full compliance.

TradeX Store

<https://play.google.com/store/apps/details?id=com.store.tradex>

Developed cross-platform e-commerce application using Flutter, supporting product browsing, checkout, and quotation workflows

- Improved checkout conversion by implementing Razorpay integration and optimizing the payment flow, resulting in a smoother and more reliable checkout experience.
- Improved app performance by optimizing state management with Provider and reducing unnecessary UI rebuilds.
- Integrated Firebase analytics and crash reporting for monitoring user activity and improving stability.
- Set up GitHub Actions for automated build generation and maintained Android/iOS release workflows.

LANGUAGES

Malayalam Native

English Fluent

Tamil Conversational

KEY ACHIEVEMENTS

 Delivered 20+ mobile applications across Android, Flutter, and Unity platforms	 Published 10+ applications on Google Play Store and Apple App Store with full compliance	 Improved app performance and stability through optimized architecture and efficient resource handling
 Designed scalable mobile applications across trading, e-commerce, gaming, and enterprise domains	 Mentored junior developers and contributed to Android hiring processes	

Find me online

 **GitHub**
<https://tonyvtomy.github.io/>