

# THOGARUCHESTI HEMANTH

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## Summary

Android Developer with professional experience working on production-grade POS payment applications. Experienced in Java-based Android development, secure transaction flows, EMV-aligned implementations, and real-time communication using MQTT. Hands-on experience with payment security concepts (DUKPT, AES, ECDH) and crash/performance optimization in live environments. Seeking a junior Android / SDE-1 role with strong engineering ownership and growth opportunities.

## Professional Experience

### Android Developer

Nov 2024 – Present

INA Payments Software Pvt Ltd | *Hyderabad, Telangana India*

- Developed and maintained Android-based POS payment application for PAX A99 terminals using Java and MVVM architecture.
- Executed end-to-end EMV transaction flows supporting Visa and Mastercard L3 certification requirements.
- Worked on Secure PIN entry, DUKPT-based key handling (TR-31), and encrypted transaction processing using AES -256.
- Blended MQTT-based communication for real-time transaction handling, improving UI responsiveness and stability.
- Diagnosed and resolved crashes related to lifecycle handling and network failures, contributing to a measurable reduction in runtime crashes.
- Collaborated with backend, QA and certification teams to deliver production-ready builds aligned with scheme compliance documentation.

### Android App Development Intern

Dec 2022 – Aug 2023

Perfect E Learning | *Remote*

- Enhanced small-scale Android applications using Java and Android SDK to understand core app lifecycle concepts.
- Enforced UI layouts using XML and basic game logic for interactive learning apps.
- Gained hands-on experience with event handling, activities, and performance considerations.

## Technical Skills

**Languages:** Java, Kotlin

**Android Development:** Android SDK, MVVM, ViewModel, LiveData, SQLite, Firebase, Retrofit, REST API.

**Tools:** Android Studio, Git, GitHub, GitHub Actions, CI/CD, Postman

## Education

### B.Tech in Computer Science and Engineering,

*AVN Institute of Engineering and Technology* | Hyderabad, Telangana, India

2020–2024 | GPA: 7.9/10

### Senior Secondary Education – MPC,

*Smt. V. Geetha Bhoopal Reddy Govt. Junior College* | Hyderabad, Telangana, India

2018–2020 | Marks: 790/1000

## Projects

### POS Payment Application (Zyro) | Tech Stack: Java, Android SDK, PAX A99, MQTT, AES-256, DUKPT (TR-31), ECDH

- Developed transaction processing features for production POS Android application handling card payments (Visa, Mastercard, RuPay, CUP, Discover) and UPI transactions.
- Implemented core transaction flows, including Sale, void, Return Authorisation, and Auth Completion with proper state management and error handling.
- Incorporated DUKPT key management system and AES-256 encryption for secure PIN entry and sensitive cardholder data processing following PCI-DSS requirements.
- Built UPI payment integration using MQTT protocol for transaction messaging, implementing retry logic and connection handling for unstable network conditions.
- Implemented Changes required for Visa and Mastercard level 3 certification compliance, including transaction logging, receipt formatting, and data field validation.
- Added timeout handling for network calls, transaction status checks, and user input flow to prevent application freezes and incomplete transactions.
- Integrated contactless payment support for RuPay, China UnionPay (CUP), and Discover card schemes using NFC reader APIs and EMV contactless specifications.

**NotesNest - Android Productivity App | Tech Stack:** Java, Room Database, Firebase, Material Design, WorkManager

| [Play Store](#)

- Built production Android app features encrypted note storage, reminders, a to-do list, and advanced categorisation with offline-first architecture for reliable data access.
- Implemented Room Database with indexed queries and encryption, RecyclerView with DiffUtil for efficient rendering and toggle between list and grid views.
- Engineered WorkManager -based notification system with foreground service implementation to handle OEM battery optimisation restrictions, merged Firebase Authentication (email and Google sign-in), Crashlytics and Analytics.
- Expanded Multi-format export functionality (PDF, text, image) using PDFDocument API with chunked rendering, created AppWidgetProvider-based home screen widgets for quick access, and built a backup system with Google Drive API.
- Designed Material Design 3 UI with adaptive light/dark themes, implemented category filtering and full text search.