DANG VAN TIEN

MOBILE SOFTWARE ENGINEER | ANDROID & REACT NATIVE

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PROFESSIONAL SUMMARY

Mobile Software Engineer with 3.5+ years of experience delivering enterprise B2B products using Android/Kotlin and React Native. Experienced in end-to-end Android SDK development, native integrations, mobile analytics, and maintaining production applications.

PROFESSIONAL EXPERIENCE

SOUTH TELECOM | Mobile Software Engineer

04/2023 - Present

Android Barcode Scanning SDK

- Designed and built a Kotlin Android barcode-scanning SDK end to end, from CameraX preview and XML-based UI to results returned to the retailer application.
- Built a CameraX ImageAnalysis pipeline for frame conversion, rotation, and TensorImage preparation. Measured scan latency and moved model inference to the Scan action to keep live preview responsive.
- Integrated AI-team-provided TensorFlow Lite models to detect product boxes and barcode regions. Cropped images and decoded barcodes using Google ML Kit.
- Grouped decoded values by product box and integrated an AI backend for serial number (SN) identification, with product ID (PID) classification based on barcode formats and business rules.
- Published versioned AARs to private Repsy Maven via Gradle. Documented requirements and supported integration by the product team.

OmniCXM & Internal CodePush Platform

- Developed and maintained React Native features for B2B CRM workflows, including ticketing, messaging, reporting, and Android widgets. Investigated and resolved production issues.
- Designed an offline-first analytics SDK with MMKV buffering, retry logic, and sensitive-header redaction. Built supporting web views, REST APIs, database tables, and telemetry dashboards on an existing CodePush platform.

DCM Mobile Application (PVCFC)

- Migrated and maintained a legacy React Native application from 0.62.2 to 0.77.3, updating React 18, Navigation 7, Hermes, New Architecture, Gradle 8, NDK 27, and Android API 36. Addressed 16 KB page-size compatibility.

Woni Service Robot (Vikki Bank)

- Debugged React Native-to-Android Java bridge integrations and vendor SDK initialization issues. Used logs, vendor documentation, and simulated responses when hardware was unavailable.
- Configured robot navigation and docking workflows. Supported on-site deployment, troubleshooting, customer requests, and handover to the Field Service Engineering (FSE) team.

SELECTED PROJECT

ChatDVT & devtiendang.blog | Creator & Full-stack Developer

- Built a personal web platform and AI-powered Discord bot with TypeScript, React/Vite, Express, Prisma, Discord.js, and Google Gemini. Added contextual chat, image analysis, and developer utilities.

TECHNICAL SKILLS

Languages: Kotlin, Java, JavaScript, TypeScript, SQL, XML
Mobile: Android SDK, React Native, CameraX, TensorFlow Lite, Google ML Kit, Native Modules, Hermes, MMKV, Notifee
Tooling & Backend: Node.js, Express, Prisma, MySQL, REST APIs, CodePush, Gradle, Maven Publish, Repsy

EDUCATION

Posts and Telecommunications Institute of Technology **2017 - 2022**
Engineer's Degree in Information Technology