John Louise Tan

Senior Android Developer

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Filipino citizen

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Neu-Ulm, Germany (relocating to the Philippines)

Skills

Programming Languages, Tools and Framework

Native Android (Kotlin) | Kotlin Multiplatform | Jetpack Compose | XML Views | WorkManager | MVVM / MVI | Kotlin Coroutines and Flow | Hilt / Dagger / Koin | Coil / Glide | Retrofit / Ktor | Room / DataStore | Android Testing | Gradle Kotlin DSL | CI/CD (Zuul / Bitrise) | AI-assisted development (GitHub Copilot / Claude Code)

Knowledge and Concepts

Android Automotive OS (AAOS) integration and driver distraction guidelines | Agile / Scrum planning | Backend communication (REST APIs / MQTT)

Summary

Senior Android Developer with 9 years of experience (7 in Android), specializing in Kotlin and Jetpack Compose across automotive (BMW AAOS) and e-commerce applications, with hands-on work in Kotlin Multiplatform. Skilled at leading architectural changes and building applications from the ground up. Relocating to the Philippines (UTC+8), available for APAC, EU/UK or US hours.

Work Experience

Paradox Cat GmbH, Germany

(Hybrid, mostly remote)

Senior Developer (Android) | July 2024 – Present

- Provide technical expertise on various BMW Android Automotive OS (AAOS) telematics use cases across multiple ECUs to support planning and requirement specification, while implementing and maintaining these features
- Guide teammates in improving code quality across multiple applications through code reviews and technical discussions, and introduce process improvements that speed up development
- Led architectural changes in multiple applications by shifting towards a unidirectional data flow (MVI) architecture and introducing multi-user communication using AIDL, reducing core functionality defects and crashes by ~90% while improving performance and development time
- Improved code quality across 10 applications by initiating the creation of local unit tests and instrumented tests, raising code coverage to over 80%
- Set up GitHub Copilot skills and agent guidelines to keep AI-assisted code consistent with the applications' architecture and standards, and enable coding agents to run tests on ECU emulators

Software Developer | August 2022 – June 2024

- Implemented and maintained telematics use cases across 10 BMW AAOS applications, involving backend communication via MQTT and REST APIs, call handling, vehicle signal processing and video playback
- Tested applications across different ECUs and vehicle configurations, and integrated them into Zuul CI/CD pipelines for automated testing and release
- Enabled application releases for new BMW vehicle generations by adding multi-ECU support, which involved building new Jetpack Compose screens, maintaining multiple backend communication frameworks and supporting multiple product flavors in the CI/CD pipeline
- Built 2 applications from scratch and rebuilt 1 application from the ground up to support new telematics requirements

BeautyMnl, Philippines
(Remote from 2020)

Mobile Developer (Android) | July 2019 – April 2022

- Led, designed and developed features across the BeautyMnl e-commerce Android application using Kotlin, coordinating with different departments to finalize requirements and providing input on UI/UX design
- Rebuilt the application from the ground up to support major UI/UX and architectural changes, which enabled the company's rebranding and improved maintainability through MVVM architecture and a shift to Kotlin Coroutines with Retrofit
- Launched a loyalty program, promo codes and interactive in-app product reviews to drive checkout conversions and user retention
- Eliminated a 20–30-minute manual deployment process by initiating the creation of a CI/CD pipeline using Bitrise
- Maintained application stability by initiating the creation of unit tests and addressing Firebase Crashlytics issues, and integrated analytics using Firebase Analytics

Nokia Technology Center, Philippines

Team Technical Lead and Code Guard | February 2019 – June 2019
Deputy Code Guard | October 2018 – February 2019
Scrum Feature Owner and R&D Engineer | July 2017 – October 2018

- Progressed from R&D Engineer to Team Technical Lead in less than 2 years, serving as the team's point person for technical specifications and primary code reviewer for correctness, optimization and readability
- Enabled system demos of the company's main product by spearheading the introduction of data traffic features in a 5G network component simulator
- Paved the way for future development configurations by leading the initial virtualization of multiple network component simulators
- Developed and tested 5G network component simulator features using C++ and wrote technical specifications covering virtualization, networking, platform compatibility and component integration
- Coordinated with multiple teams to define feature specifications, timelines and dependencies, and broke features down into user stories for sprint planning

Projects

Wais – Personal Project
(In internal beta testing)

- Built an MVP for Android and iOS with shared Compose Multiplatform UI and logic, handled platform-specific implementations for Room, currency retrieval and networking, and released it to beta testers via Google Play and TestFlight
- Designed a multi-modular, unidirectional data flow architecture with local data storage and offline-first currency conversions
- Use Claude Code with custom skills to maintain code quality while adding features from beta feedback
- Tech Stack: Compose Multiplatform, Ktor, Room KMP, Koin, Coroutines/Flow, Firebase, Gradle Kotlin DSL

Education

University of the Philippines Diliman – BS Computer Science, Cum Laude | 2013 – 2017

- Hackathons: Champion at Hackzilla and Hack UP, 3rd Place at Accenture: Program the Future
- Marketing Head, Association for Computing Machinery (UP Diliman Student Chapter)