Felix Tien

Phone: 205-482-3933 | Email: felix.tien.takumu@gmail.com

Portfolio: https://www.felixtien.com/

SUMMARY

- Over 4 years of expertise in proficiently crafting Android applications utilizing both **Java** and **Kotlin** programming languages.
- Knowledge of **Object-Oriented Programming** principles including encapsulation, inheritance, and polymorphism.
- Well-versed in leveraging various **Jetpack** libraries, including **View Binding**, **Navigation**, etc, to enhance application architecture and data management.
- Extensively experienced in crafting Android UI through adept utilization of **XML** layouts and **Jetpack Compose**, ensuring optimal design and functionality.
- Proficient in implementing both **MVC** and **MVVM** frameworks, with proven tracks of incorporating them into Android apps.
- Demonstrated proficiency in manipulating **Firebase** service, including database **Could Friestore**, **FirebaseAuth**, **Firebase Cloud Message**, etc.
- Experienced in implementing data persistence, object graph management, and data manipulation using **Room** library.
- Accomplished with utilizing **SharePreference**, **Keystore**, and **file storage** in Android development for lightweight data persistence and application state management.
- Adept **RESTful** APIs in Android using **Postman** to collaborate API functionality and using **Retrofit**, **Gson**, and **OkHttp** for backend communication.
- Versatile with generating color schemes via **Theme Builder** and implementing these color themes into Android projects.
- Skilled at utilizing **Google Maps SDK** for Android projects to integrate mapping and location-based services into mobile applications.
- Skilled in employing **Data Binding** and **Observable State Objects** to update UI elements efficiently.
- Expertise in implementing **Google Material** design components within both **XML** and **Jetpack Compose** frameworks.
- Experienced in **GitHub** for creating and managing repositories, branching, merging, and resolving conflicts using **Git** commands.
- Skilled in leveraging **JUnit** and **Mockito** for **Java** and **Kotlin** logic testing, adept in meticulous UI testing with **Espresso** for diverse Android apps.
- Profound familiarity with **Agile** methodologies, serving as a proficient **Scrum** Master, and directing comprehensive project lifecycles.
- Capable in utilizing **JIRA** for project management and skilled in leveraging features such as workflows, boards, and dashboards to facilitate team collaboration.

SKILLS

Languages	Java, Kotlin, XML
Client-side Tech Stack	Jetpack Compose, MVVM architecture, Gradle, Retrofit
Database	SQLite (Room), Cloud Firestore
Testing	JUnit, Mockito, Espresso, Postman
Tools	Android Studio, GitHub, VSCode, JIRA

EXPERIENCE

Walmart Business   Oct 2024 - Present
Android Developer   Sunnyvale, CA

Walmart Business is a shopping platform for small businesses and nonprofits to buy products and services. As a member of the Walmart Glass project, our B2B team is creating features specifically for Walmart B2B and collaborating with B2C teams to share common functionalities.

Google Play Store link: Walmart Business App - Apps on Google Play

Responsibilities:

- Crafting and managed user interfaces for Android applications employing **Kotlin** and **XML**, guaranteeing seamless and captivating user experiences.
- Integrating **Apollo GraphQL**, collaborating with Walmart OL team to validate **Schemes**, and implementing **Queries** and **Mutations** for efficient backend data retrieval.
- Developing **LEO** in **Walmart Confluence** as a project management tool, integrating **JIRA** and **PR** links to track Walmart B2B feature progress efficiently.
- Leveraging **Slack** channels to streamline inter-team communication, foster collaborative project work, and facilitate efficient file-sharing.
- Validating Walmart business logic, configuring **CCM** flags in Andoird config files, registering flags in **Walmart Admin**, and documenting **CCM** processes comprehensively.
- Collaborating with **Walmart B2C** teams to integrate core functionalities, while selectively overriding functions to meet the specific requirements of **Walmart B2B**.
- Utilizing **Android Layout Inspector** to identify specific files and analyze UI elements across multiple layout layers for precise debugging and optimization.
- Employing **JIRA Agile Board**, issue tracking, user stories, and sprints within **Agile** frameworks to collaborate effectively with team members.
- Simulating backend **JSON** responses using **Flipper**, rendering simulated data on the **Android Emulator**, and syncing with the backend team as needed.

Additional tools employed in the project:
JUnit for unit testing, **Mockito** for integration testing, **Espresso** for UI testing, **GitHub** for version control, and **JIRA** for project management.

Famrent   Mar 2023 – Sep 2024
Android & iOS Developer   Binghamton, NY

Famrent operates across both Android and iOS platforms, utilizing Jetpack Compose for Android and SwiftUI for iOS to streamline rental management processes efficiently. It provides landlords with a dashboard to track tenant payment history and rental income, while tenants can report issues and rate their landlords. The project was developed entirely from the ground up using SwiftUI, ensuring a modern, efficient, and scalable design.

Google Play Store link: [Famrent App - Apps on Google Play](#)

App Store link: [Famrent App on the App Store](#)

Responsibilities:

- Implemented **Google Auth**, **Email Auth**, and **Phone Auth**, enabling seamless account creation and secure authentication for Famrent users.
- Leveraged **Firestore**, a NoSQL cloud database, as the backend to efficiently store and manage user data, notifications, and more.
- Utilized **Cloud Storage** to allow tenants to upload images of housing issues, providing landlords with visual context to address and resolve problems efficiently.
- Enabled **FCM v1 API** and employed **Push Notifications** and **NotificationCompat** in Android to deliver real-time updates in the Famrent app.
- Developed **Cloud Functions** using TypeScript to implement the backend logic for the Famrent project on the Firebase server.
- Applied **AdMob** API for banner, interstitial, and rewarded interstitial ads into the Famrent project, and deployed the **app-ads.txt** file to the Portfolio domain.
- Created multilingual support in the Android app by defining translation keys for four languages in a **JSON** file, allowing users to select their preferred language.
- Leveraged **Retrofit** for **RESTful** API interactions and utilized **Dispatchers.IO** for **Coroutines** to asynchronously handle remote data retrieval.
- Managed version control for development by effectively utilizing **GitHub** and deploying relevant data to designated **Repositories**.
- Prepared the Famrent privacy policy and produced app preview screenshots for the published Famrent app on the **Google Play Console**.
- Set up a membership subscription in **Google Play Console**, integrate it with **RevenueCat**, and configure API keys to link the subscription service to **Compose**.

JLPT N1-N5 Level   Jan 2021 – Dec 2022
Android & iOS Developer   Birmingham, AL

The JLPT N1-N5 mobile applications are tailored for students preparing for the Japanese Language Proficiency Test. These apps are divided into four distinct versions corresponding to the proficiency levels and are available on both Android and iOS platforms. The Android versions utilize XML-based architecture, integrating Compose View to leverage Jetpack Compose, while the iOS versions are predominantly developed using SwiftUI.

JLPT N1 Level Google Play Store link: [JLPT N1 Level App on the App Store](#)

JLPT N1 Level App Store link: [JLPT N1 Level App on the App Store](#)

JLPT N2 Level Google Play Store link: [JLPT N2 Level App on the App Store](#)

JLPT N2 Level App Store link: [JLPT N2 Level App on the App Store](#)

JLPT N3 Level Google Play Store link: [JLPT N3 Level App on the App Store](#)

JLPT N3 Level App Store link: [JLPT N3 Level App on the App Store](#)

JLPT N4-N5 Level Google Play Store link: [JLPT N4-N5 Level App on the App Store](#)

JLPT N4-N5 Level App Store link: [JLPT N4-N5 Level App on the App Store](#)

Responsibilities:

- Used **XML** to design Android UI and UX and published the app projects to **Google Play Console**.
- Utilized **Retrofit** to make **RESTFull API** network requests and employed **@GET** and **@Path** to parse the **JSON** file.
- Implemented the **Room Database**, a SQLite library, for efficient local data storage in Android applications.
- Proficient in implementing the **MVVM** architectural pattern to design and develop robust and scalable software solutions.
- Leveraged **SharedPreferences** for managing small data storage and user preferences in Android and iOS applications.
- Integrated **Jetpack Compose View** within XML enables seamless interaction between XML-based projects and composable functions.
- Applied **View Binding** from Jetpack to simplify XML-Kotlin interaction via generated binding classes, enhancing efficiency in view manipulation.
- Leveraged **Data Binding** from Jetpack to dynamically update the application's UI in real-time with professional precision.
- Advanced proficiency in implementing efficient and dynamic user interfaces using **RecyclerView** in Android app development.