Software Engineer DONGWAN KOO

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SUMMARY

I am a responsible person. As a senior developer based on Android, Kotlin, I have implemented various UI Apps and Services in Mobile, OTT, and IoT environments. I think that development should be done to contribute to the company's goals rather than focusing on what an individual wants, so I always think about source code design to build a good structure and quick development at the start of a project. And I always go over new skills in order to respond promptly to changes in the development direction of a company or team. Currently, I've been developing Android Native, Cross-Platform App, and Web Front-End based on React and Flutter.

OUTSTANDING ABILITY

[Skills]
- Developed Full App Life-cycle from early stage to release and maintenance
- Experienced legacy system refactoring and protocol migration
- Developed App in both Mobile and OTT environments

[Cooperation]
- Collaborated with various departments
- Worked with other domestic / overseas developers
- Managed projects using JIRA system

SKILLS

[Android]
- Android SDK, AOSP, Kotlin, JetPack, Hilt, Dagger, MVVM, RxJava, Retrofit, Constraint Layout, Compose UI, Coroutine

[Cross Platform & Web Front-end]
- React Native, Typescript, Javascript, Flutter, Dart, React Hook, Recoil, Axios, GetX, HTML, CSS

[Development Tool & OS]
- Android Studio, Visual Studio Code, Postman, Zeplin, Pigma, Firebase, Jira, Confluence, Slack, Windows, MacOS

EDUCATION

UNIVERSITY OF KOREA   2010.03 – 2014.02
- Kyungpook, Software Engineering, Bachelor's degree
- Cumulative GPA 4.3 / 4.5

CERTIFICATE & AWARD   2011.02 – 2021.12
- OCJP (Oracle, 2013.08), Linux Master Lv2 (Korea, 2017.12), Engineer Information Processing (Korea, 2013.08)
- Product Award (Navien Inc., 2021.12)

WORK EXPERIENCE

BYCLIP   2022.09 - PRESENT
PRODUCT / Manager / **Team Member**
*Company: Enterprise based on Internet of Things technology(IoT)
*Role: Android App, React & Flutter Web Front-end, React-Native App development
[React-Native Watch App]
- Developed Mobile App that displays and requests information such as Heart-Rate, Sleep and Wearing data through BLE communication with the Watch

[Android Galaxy Watch App]
- Designed App source structure and developed Watch App which provides functions such as Wearing status and Health data measurement using Android Health Service

[React / Flutter Admin Web-page]
- Developed Web-pages that allow system administrators to query or update information in a database using the Web-page UI

NAVIEN INC.   2021.08-2022.09
MOBILE APP / Manager / **Project Leader**

[Navien Smart App]
- Integrated all the functions of the hot water mat, boiler and ventilation system apps into one
- Designed entire architecture from first screen to Home's / Set-up Gradle build environment / Developed all views and view models
- Developed of all parts of hot water mat device control, some parts of boiler device control and Home main Setting menu
- Established Sprint items and Managed issue progress using the JIRA system
- Successfully finished App release to the App Store and Play Store

[US Navien Mate App]
- Successfully migrated the existing TCP communication method code to MQTT's
- Received Product Award (2021. 12. 23)

[Following Up the new Bluetooth chip issue]
- Collaborated with third-party company, tested BT and followed up issues

HUMAX   2014.01-2021.07
MEDIA / Assistant Manager / **Team Member**

*Company: A company specializing in OTT / STB solutions that show broadcasting contents
*Role: Android App development
[App Store]
- Steadily maintained an app store that displays registered apps for each model, updates and installs them through HTTP communication with the in-house Cloud server

[Wizard App]
- Developed 4 to 5 screens for initial OTT settings after factory reset

[Radio App]
- Quickly developed an app which displays station information by parsing Json data obtained through REST-API and plays it

[Settings App]
- Customized new Settings app with renewed design and functions for OTT concept according to customer requirements

[BT RCU Service]
- Added and modified Key codes to meet the RCU specifications in Framework layer, and implemented UI, BT-pairing and FW upgrade according to detected key events in APP

[Test App]
- Implemented UI and function that outputs Log messages and shows test results for Network modules, model asset keys and etc.

[Launcher App]
- Developed a part of recommendation list that receives content list through REST-API, stores it in DB, and updates UI when data change is detected through ContentObserver
- Participated in code refactoring to improve classes cohesion and code duplication

[VOD App]
- Created UI and functions that show video information and play the video through the PlayerWebView provided by VOD SDK

[OTT Service]
- Involved in developing a service that integrates various services that operate on OTT into one and communicates with other apps through AIDL IPC

[Jenkins CI / Release Build Job Management]
- Set-up Jenkins Daily, CI, Release Build Job and Maintained build script

[AOSP Bring-Up]
- Responsible for applying Patch, setting App build script, Makefile needed for PDK build and Sepolicy

[Frameworks]
- Set-up Key codes for IR & BT RCU
- Customized handling for Key events in PhoneWindowManager