

# 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 OTHER RELATED DEPARTMENTS other than the development team
- 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

- 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 / TeamMember

\*Enterprise based on Internet of Things technology(IoT)

#### [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

\*A company specializing in living energy based on IoT technology

#### [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 SETTING menu
- Established SPRINT items and Managed ISSUE PROGRESS using the JIRA system
- Completely 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

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## HUMAX

2014.01-2021.07

MEDIA / Assistant Manager / **Team Member**

\*A company specializing in OTT / STB solutions that show broadcasting contents

#### [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 SHOWS video information and PLAYS 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