**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**

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| **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

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| **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