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Introduction

Hello, I'm **Backend Engineer GeonYoung Shin**.

- I ponder to choose **appropriate methods** to solve problems.
 - I test deployable technologies and find solutions that are needed at the present moment, considering smooth flow.
 - I emphasize the culture of **sharing issues and discussions** with colleagues for mutual growth.
 - Through specific feedback exchanges, I have experienced becoming a better developer than yesterday.
 - I pursue **continuous improvement through code reviews and feedback**.
 - I divide tasks into units, complete them one by one, and continuously improve.
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Work Experience

Dream Security

2022.07 ~ Present

- Developed web management tools for merchants and operators for identity verification services.
- Developed modules for service application and payment integration for partner companies.
- Enhanced the settlement process for identity verification services, averaging 14 million transactions per month.
- Supported operation and development of identity verification services.

Line Creative

2021.01 ~ 2021.12

- Collaborated with defense companies such as LIG Nex1, Hanwha Systems, and Poongsan to produce promotional videos.
 - Developed F-35 VR simulation features using Unity 3D and Cryengine.
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Development of Partner Service Application and Payment Integration Module

- **Duration:** 4 months
- **Key points:** Developed standardized partner application link system, integrated with PG payment module.
- **Contributions:**
 - Developed payment module linking with PG (standard payment window/periodic payment/payment cancellation/account refund).
 - Migrated existing partner companies to the current developing module.
 - Developed notification function based on service status (used/not used/under review) and payment status (payment completed/payment canceled/period expired).

- Enhanced data integrity by using SHA-256 and HMAC for encryption/decryption and data transmission with partners.
- **Skills used:** Java, Spring Boot, JPA, QueryDSL, WildFly
- **Detailed Results:**
 - Developed **standardized partner application link module** to flexibly accommodate new partner companies.
 - Implemented encryption and decryption of data with partners using **SHA-256 and HMAC**, ensuring data confidentiality and integrity.
 - Introduced payment system notification function, providing real-time notifications to partners and related personnel via API/email in case of payment failure or system failure, enhancing payment system stability and service satisfaction.

Development of Identity Verification Service Back Office Management Features

- **Duration:** 8 months
- **Key points:** Integrated the process of registering and modifying information of merchants who want to use existing identity verification services from developers directly accessing the database into a web-based integrated management tool.
- **Contributions:**
 - Developed a system to manage information such as service status and ACL of the services provided to merchants.
 - Implemented functionality to generate and manage personal key and public key files required for identity verification service integration.
 - Developed audit log function to track and record user actions and important data processing history.
 - Implemented a web-based management system for registering terms of use, privacy policies, and promotional banners registered in the identity verification standard window by each mobile carrier.
- **Skills used:** Java11, Spring, MariaDB, MyBatis, MagicDB
- **Detailed Results:**
 - The process of registering and managing merchant information was integrated into a web-based system, transitioning management points from DBAs and developers to the web.
 - Reduced the procedure and time required for generating encryption keys from 5 minutes to 5 seconds by implementing the function to create public key and private key files on the web.
 - Ensured 100% reliability and traceability of log data, reducing preparation time for IT audits and subcontractor site inspections.

Development of Identity Verification Service Batch Features and Enhanced Settlement Process

- **Duration:** 4 months
- **Key points:** Converted the Oracle procedure, which was aggregating data on the monthly average of 14 million identity verification service transactions, into a Spring-based project, allowing confirmation of aggregated data in the web management tool and automating the manual settlement process.
- **Contributions:**
 - Developed a process to query necessary data for settlement from the database and generate an Excel (.xlsx) file to upload to the ERP system.
 - Migrated from Oracle procedures to a **Spring-based project**, reducing settlement processing time from about 20 minutes to 3 seconds, and reducing the human error rate in settlements by more than 95%.
 - Developed a function to send daily and monthly statistics reports on daily, monthly, and service provider usage to administrators via email and allow downloading of aggregated statistics data in Excel format.
- **Skills used:** Java11, Spring Scheduled, Apache POI, MariaDB, MyBatis, Oracle procedure
- **Detailed Results:**
 - Automated the settlement process, reducing the time required for settlement processing from about 20 minutes to 3 seconds and reducing the human error rate in settlements by more than 95%.
 - Used **Spring Batch functionality** instead of Oracle procedures for settlement processing, making maintenance easier.
 - Through the email notification system, administrators can receive daily, daily, and service provider usage reports, enabling data-based decision-making for service operations and management.

Support for Identity Verification System Enhancement and Service Operation

- **Duration:** 6 months
- **Key Activities:** Management of deployed samples and guides, vulnerability assessment, service operation and incident response, optimization of JEUS server resources
- **Contributions:**
 - Conducted standardization efforts for consistency and standardization of sample code across various languages including JSP, PHP, ASP, React, and Node.js.
 - Identified and addressed XSS vulnerabilities through security vulnerability analysis.
 - Provided support for service incidents.

- **Detailed Outcomes:**

- Strengthened system security through enhanced input validation logic and addition of XSS filters.
 - Added comprehensive testing manuals for both PC and mobile environments to address issues with missing authentication codes.
 - Reduced service downtime by supporting DB storage failure recovery and transferring backed-up server data to previous servers.
 - Enhanced capacity to handle a 1.5 times increase in concurrent users and traffic through optimization of JEUS server resources.
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