

Junhyun Kang

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Hello, I'm a software engineer at Tanzu Labs. I like to write my thoughts and experience and share my knowledge with others.

Github 저장소

<https://github.com/Junhyunny>

주요 기술 3개

Java Spring Boot Spring Data JPA

기술 태그 18개

Thymeleaf JUnit MySQL OpenCV Oracle Python ReactJS Sass(SCSS) Vue.js Raspberry Pi C++ Spring Cloud
MyBatis Spring Security Jest Kivy Spring Data NativeScript

업무 경험

2021-11 ~ 재직 중
(9개월)

VMWare

Software Engineer

ReactJS Spring Boot Spring Cloud Spring Data JPA Sass(SCSS) Jest JUnit

[KB Bank] Customized LiivM plans recommendation service based on MyData

2022-01 ~ 2022-06

- Development MVP(Minimum Viable Product) service through 10-week iteration
- Building CI/CD pipeline for development iteration period
- Implement phone plan recommendations and detailed plan's information inquiry functions using React, Redux Toolkit, Sass
- Implement interworking with LiivM's legacy system and MyData platform using Spring Boot, Spring Cloud
- Skill enablement for client developers via pair programming
- Practice Test Driven Development using React Testing Library, Jest, JUnit
 - Approximately 200 or more unit tests for front-end service
 - Approximately 100 or more unit tests for back-end service
- Analysis and rebuild KB EAI messaging service using Spring Boot, Apache Camel
 - Reliable refactoring with test codes

- Reduction source codes and application configurations approximately 70% by code refactoring

2021-04 ~ 2021-11
(8개월)

Geneuin

Application Developer

Vue.js Spring Boot Spring Security Spring Data JPA MyBatis MySQL

[Korea Health Industry Development Institute] IoT Care Service Advancement Project

2021-08 ~ 2021-11

- Modifying legacy queries due to change database from SYBASE to TIBERO
- Debugging legacy system's error that reconnecting fail caused by failure to initialize user's session id in cookie after logout
- Implement various bulletins and IoT sensors mapping screen using Spring MVC, JSP, jQuery
- Improvement a legacy digital care work and management screen and refactoring code
 - Approximately 50% code reduction through removing obsolete components and repeated jQuery codes
- Development mobile web application using Spring MVC, Spring Mobile Device, JSP
 - Implement new 18 mobile screens
 - Implement two factor authentication using user's PIN

[KC Industrial] Gas Logistics MES project 2021-05 ~ 2021-08

- Analysis gas logistic domain and design entities
 - Designing entities based on business characteristics by gas container type
- Defining a status of the container in logistics process and implement container's status change logic
- Implement cylinder bundling and quality non-conforming process using Spring Event Listener
- Development web application for gas container management using Vue.js, Spring Boot
- Implement automatically print function entering, charging, delivering and quality inspection reports
 - Automation printing reports that were handwritten based on data from the system process before hand writing
- Implement uploading PDF files about entered containers' information and downloading CSV files
 - Automation making CSV files manually for hundreds of entered containers information

2018-07 ~ 2021-04
(2년 10개월)

POSCO ICT

Application Developer

Operate POSCO MES3.0 Yard Management System 2020-06 ~ 2021-04

- Debugging and stabilizing POSCO MES yard management system
 - Mitigation of dead-lock using data preemption by database pessimistic lock mechanism
 - Tracing and remediation of defects that cause quality degradation due to materials and products collision
 - Tracing and remediation of defects that cause accidents and delay of logistics due to incorrect material loading
- Operating of Slab, Coil, Plate and Wire service for Pohang · Gwangyang yard management system
 - Processing more than 30 million API requests per day on average
- Automation of vehicle transfer logistics in Pohang electric steel warehouse
 - Increasing transport efficiency and reducing crane workers' tiredness through automatic product loading upon arrival for a specific transfer route
- Improvement performance of the system through refactoring code and optimization queries
- Reflect new business requirements based on SR(service request) of workers and service release
- System monitoring and response to faults of system for 24 hours

Development POSCO MES3.0 Yard Management System 2018-07 ~ 2020-05

- Transition work of POSCO MES yard management system from monolithic architecture to micro-service architecture
- Implement API function for other systems and fallback processing using Spring Cloud
- Implement and refactoring common components of yard management system
 - Refactoring common scheduling components for efficient material loading and placement
 - Implement business rule engine component
- Improvement the speed of the business rule engine 80% faster
 - Reduce the time to less than 1 second that takes more than 5 seconds
 - Caching business rules in application memory and synchronize with other services using spring cloud stream and Kafka
- Implement new vehicle transport scheduling logic to improve logistics flow
 - Preemption of materials to be transferred on the next vehicle
 - Grouping and sequencing the stock of materials in the warehouse more than 80%
 - Sending the lists of material groups to other transport system using Spring Cloud Stream, Kafka

C++ OpenCV

Development vision processing application 2017-08 ~ 2017-11

- Development of object recognition application using OpenCV(C, C++)
 - Using SVM(Support Vector Machine) machine learning algorithm
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학력

2014-02 ~ 2018-02

Hansung University

Electronic Engineering 전공 • Bachelor

4.45 / 4.5 학점

- Selection of the best scholarship students in Asan for 3 years
 - Silver award at the 34th national college mathematics ability test
 - Sponsored by the Korean Mathematical Society and the Academy of Advanced Sciences
 - Award at the 2016 idea design and production using future radio tech competition
 - Sponsored by the National Radio Research Institute
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개인 프로젝트

2020

Jangrye Baksa

Raspberry Pi Python Kivy

Platform for funeral

- Implement function of making written paper using Vue.js
- Implement monitoring screen for the funeral parlor status screen using Python, Kivy on Raspberry Pi

<https://www.jrbaksa.com/main.do>

2020

VillaM

NativeScript Vue.js Spring Boot Spring Security Spring Data Thymeleaf

Platform for villa management

- Development hybrid mobile application using Nativescript-Vue, Spring Boot
- Implement of management maintenance fee, payment process
- Implement various bulletin boards and voting system for residents
- Implement mobile push notification using Google Firebase

<https://www.villam.co.kr/>