KIM YONGHYUN

WEB DEVELOPER

BRIEF INTRODUCTION

I am Kim Yong-hyun walking the roadmap of DevOps Engineer. Currently, I am in charge of front-end, back-end, and infrastructure construction and operation.

CORE COMPETENCIES

DevOps

- Build and operate service infrastructure based on the AWS cloud platform
  - 2021.01 ~ Operating until now
  - 4 services in operation
- On-Premise development server construction and operation
  - 2019.06 ~ Operating until now
- Reverse Proxy Server construction and operation
- IwinV domestic cloud platform-based service infrastructure construction and operation
  - 2019.06 ~ Operating until now
  - Cloud Virtual Server / Bare Metal Server / Object Storage
- Build and operate GitLab with on-premise structure
  - 2019.06 ~ Operating until now
  - GitLab-based CI & CD construction and operation
  - GitLab-based Docker registry construction and operation

Front-end development

- Developed with VueJS, mvvm framework
- Building and developing frontend with NuxtJS for server-side rendering
- Using webpack and babel for source bundling and optimization

Backend development

- Develop resutful api with spring, django, expressjs
- Development and operation of monitoring service using web socket

CAREER

(Corporation) OPENMATE (2016.11 ~ In office)
Operation Business Team / Senior Researcher

EDUCATION

Sungkyunkwan University Graduate School[Seoul]
Master of Information Security degree(Grades: 4.17 / 4.5) | 2016.03 ~ 2018.08

Korea Polytechnic University[Gyeonggi]
Bachelor's degree in computer engineering (Grades: 3.97 / 4.5) | 2014.03 ~ 2016.02

CONTACT DETAIL

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SERVICE IN OPERATION

Data-On(https://data-on.co.kr)
Smart-On(https://smart-on.co.kr)
Trend-On(https://trend-on.co.kr)
Safe-On(https://safe-on.co.kr)

SKILLS

- ●●●● AWS Service(ECS, EC2, RDS, ALB, CodeSeries, Route53, CloudFront, S3, SQS)
- ●●●● Docker(Docker-Compose, Swarm)
- ●●●● Kubernetes
- ●●●● Linux(bash, sh)
- ●●●● Security
- ●●●● Network
- ●●●● dJango
- ●●●● ExpressJS
- ●●●● Spring Framework
- ●●●● RDB(mariaDB, postgreSQL)
- ●●●● NuxtJS(VueJS)
- ●●●● Javascript(ES3, ES5, ES6+)
- ●●●● HTML5, CSS3

WORK EXPERIENCE

Trend on service regular monthly update batch program production and scheduling application

Progress period: 2021.05 ~ Proceeding
Main Content: Automatic monthly update and scheduling of NICE and KT data in test and operation database
Number of participants in the project: 1 person(Me)
Position(Contribution): development(100%), infrastructure(100%)
Contribution: Data update automation
Skills used: docker, python, celery, SQS, ECS, CodeBuild, CodePipeline, SNS, postgreSQL
Result: Monthly automatic update of test and operation database of NICE and KT data

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AWS dev/staging server infrastructure change

Progress period: 2021.05 ~ 2021.05
Main Content: Change the infrastructure environment of the server from ECS (EC2-based) to ECS (Fargate-based)
Number of participants in the project: 1 person(Me)
Position(Contribution): infrastructure(100%)
Contribution: Save money by migrating to a pay-as-you-go Fargate service
Skills used: ECS, ALB, CodePipeline
Result: Independent environment establishment and cost reduction

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Apply for AWS Activate Portfolio

Progress period: 2021.05 ~ 2021.05
Main Content: Change the infrastructure environment of the server from ECS (EC2-based) to ECS (Fargate-based)
Number of participants in the project: 1 person(Me)
Position(Contribution): infrastructure(100%)
Contribution: Responsible for all processes of AWS Activate Portfolio application
Skills used: English
Result: Secure 3 months operating expenses

Container-based Geoserver construction

Progress Period: 2021.05 ~ 2021.05
Main Content: Change the existing installation type Geoserver to container-based
Number of Participants in the project: 1 person(Me)
Position(Contribution): In charge of infrastructure(100%)
Contribution: change for container-based maintenance
Skills used: docker, ECS, ECR
Result: Geoserver(https://dev.openmate-on.com:8002/geoserver/)

Apply data crawling program scheduling

Progress Period: 2021.05 ~ 2021.05
Main Content: Apply scheduling to the program for collecting corona data of SmartOn service and push a message to the Slack channel when an error occurs
Number of Participants in the project: 1 person(Me)
Position(Contribution): development(100%), infrastructure(100%)
Contribution: Scheduling is applied to a program for collecting corona data from SmartOn service.
Skills used: docker, docker-compose, python, celery, SQS, ECS, CodeBuild, CodePipeline, SNS
Result: Crawl data periodically at 9:00, 12:00, 18:00, 22:00

Transfer of Safe-On service to AWS

Progress period: 2021.04 ~ 2021.04
Main Content: Safe-On service transferred to AWS
Number of participants in the project: 1 person(Me)
Position(Contribution): In charge of infrastructure(100%)
Contribution: Safe-on service infrastructure design and transfer to AWS
Skills used: IAM, Route53, CloudFront, ACM, S3, ALB, ECS(EC2 based), ECR, CodeCommit, CodeBuild, CodeDeploy, CodePipeline, RDS
Result: Safe-On(https://safe-on.co.kr)

Transfer of Trend-On service to AWS

Progress Period: 2021.04 ~ 2021.04
Main Content: Trend-On service transferred to AWS
Number of Participants in the project: 1 person(Me)
Position(Contribution): In charge of infrastructure(100%)
Contribution: Safe-on service infrastructure design and transfer to AWS
Skills used: IAM, Route53, CloudFront, ACM, S3, ALB, ECS(EC2 based), ECR, CodeCommit, CodeBuild, CodeDeploy, CodePipeline, RDS
    Result: Trend-On(https://trend-on.co.kr)

Transfer of Data-On service to AWS

Progress Period: 2021.03 ~ 2021.03
Main Content: Data-On service transferred to AWS
Number of Participants in the project: 1 person(Me)
Position(Contribution): In charge of infrastructure(100%)
Contribution: Safe-on service infrastructure design and transfer to AWS
Skills used: IAM, Route53, CloudFront, ACM, S3, ALB, ECS(EC2 based), ECR, CodeCommit, CodeBuild, CodeDeploy, CodePipeline, RDS, SQS
Result: Data-On(https://data-on.co.kr)

Transfer of homepage and Smart-On service to aws

Progress Period: 2021.02 ~ 2021.02
Main Content: Trend-On service transferred to AWS
Number of Participants in the project: 1 person(Me)
Position(Contribution): In charge of infrastructure(100%)
Contribution: Safe-on service infrastructure design and transfer to AWS
Skills used: IAM, Route53, CloudFront, ACM, S3, ALB, ECS(EC2 based), ECR, CodeCommit, CodeBuild, CodeDeploy, CodePipeline, RDS, SQS
Result:
- Openmate-On(https://openmate-on.co.kr)
- Smart-On(https://smart-on.co.kr)

Apply for AWS Activate Founders

Progress Period: 2021.02 ~ 2021.02
Main Content: Credit Support for Applying for AWS Activate Founders
Number of Participants in the project: 1 person(Me)
Position(Contribution): In charge of infrastructure(100%)
Contribution: Responsible for all processes of AWS Activate Founders application
Skills used: English
Result: Secure the cost of building a test environment for AWS migration Secure operating costs for about 4 months

New service development / infrastructure construction

Progress Period: 2021.03 ~ 2021.03
Main Content: Data-On service transferred to AWS
Number of Participants in the project: 1 person(Me)
Position(Contribution): In charge of infrastructure(100%)
Contribution: Safe-on service infrastructure design and transfer to AWS
Skills used: IAM, Route53, CloudFront, ACM, S3, ALB, ECS(EC2 based), ECR, CodeCommit, CodeBuild, CodeDeploy, CodePipeline, RDS, SQS
Result: Data-On(https://data-on.co.kr)

Service renewal

Progress Period: 2020.06 ~ 2020.09
Main Content: Service Advancement
Number of Participants in the project: 2 people
Position(Contribution rate): Frontend(100%), Database(100%), Maintenance(50%)
Contribution: Frontend development, Data update
Skills used: HTML, Javascript(es3), Jquery, CSS, D3, postgreSQL, Docker
     Result: Trend-On(https://trend-on.co.kr)

Homepage renewal

Progress Period: 2020.05 ~ 2020.06
Main Content: Homepage renewal
Number of Participants in the project: 2 people
Position(Contribution rate): Frontend(100%), Infra(100%), Maintenance(100%)
Contribution: Frontend development, AWS IaaS-based infrastructure construction, Apply SPA model, Mobile support, Apply SSL
Skills used: HTML5, Javascript(es5+), Jquery, CSS3
Result: Homepage(https://openmate-on.co.kr)

4.15 General election page development

Progress Period: 2020.04 ~ 2020.04
Main Content: 4.15 Service for providing information on candidates for the relevant district for general election
Number of Participants in the project: 3 people
Position(Contribution rate): Frontend(50%), Maintenance(50%)
Contribution: Frontend development, Apply SSL, Apply Google Analytics, Mobile support
Skills used: VueJS, Javascript(es5+), LeafletJS, D3
Result: Smart-On(https://smart-on.co.kr, Checkable on mobile)

Maintenance

Progress Period: 2020.02 ~ 2020.03
Main Content: Internal service monthly periodic data update, Web application maintenance
Number of Participants in the project: 2 people
Position(Contribution rate): Backend(50%), Frontend(50%), Database(50%), Infra(100%), Maintenance(50%)
Contribution: Data update, Data dump program development
Skills used: postgreSQL, Docker, Spring, Mybatis, JSP, JSTL, HTML, CSS, Javascript(es3)

Construction of a new service infrastructure environment

Progress Period: 2019.10 ~ 2020.01
Main Content: Development and operation service infrastructure environment construction
Number of Participants in the project: 1 person
Position(Contribution rate): Infra(100%), Maintenance(100%)
Contribution: AWS IaaS-based infrastructure construction, GitLab construction, Reverse Proxy Server construction, On-premise Infra construction(Test purpose), Private Docker Repository construction
Skills used: Docker, NginX, Apache
Result: GitLab(https://git.openmate-on.co.kr), Synchronization of development & operation infrastructure

New Service development

Progress Period: 2019.10 ~ 2020.01
Main Content: Urban analysis service that diagnoses and prescribes with big data & artificial intelligence based on public data
Number of Participants in the project: 6 people
Position(Contribution rate): Frontend(100%), Infra(100%), Maintenance(50%)
Contribution: Frontend development, AWS IaaS-based infrastructure construction, Apply SSL
Skills used: VueJS, Javascript(es5+), HTML, CSS, Vuetify
Result: Smart-On(https://smart-on.co.kr)

Buy and Install Trend-On Service SSL

Progress Period: 2019.09 ~ 2019.09
Main Content: Purchase and installation of SectigoSSL through GoGetSSL, an overseas SSL purchase broker
Number of Participants in the project: 1 person(Me)
Position(Contribution rate): Infra(100%)
Contribution: Reduction of purchase cost through overseas brokers
Skills used: English, NginX+SSL
Result: Securing service reliability and reducing the cost of purchasing certificates

Temporary homepage development

Progress Period: 2019.08 ~ 2019.09
Main Content: Temporary homepage development
Number of Participants in the project: 1 person
Position(Contribution rate): Frontend(100%), Backend(100%), Maintenance(100%)
Contribution: Frontend development, Backend development, Mailing logic applied, Apply SSL
Skills used: HTML, Javascript, Jquery, CSS, Bootstrap, PHP

Enhancement of internal service

Progress Period: 2019.06 ~ 2019.07
Main Content: Administrator logic change
Number of Participants in the project: 1 person
Position(Contribution rate): Frontend(100%), Backend(100%), Database(100%), Maintenance(50%)
Contribution: Frontend development, Backend development, Apply SPA model, apply restful api
Skills used: HTML, Javascript, CSS, Jquery, Spring, Mybatis, PostgreSQL
Result: Increased user convenience for service managers on the UI

Buy and Install Safe-On Service SSL

Progress Period: 2019.04 ~ 2019.04
Main Content: Purchase and installation of SectigoSSL through GoGetSSL, an overseas SSL purchase broker
Number of Participants in the project: 1 person(Me)
Position(Contribution rate): Infra(100%)
Contribution: Reduction of purchase cost through overseas brokers
Skills used: English, Apache2+SSL
Result: Securing service reliability and reducing the cost of purchasing certificates

Maintenance

Progress Period: 2017.04 ~ 2019.05
Main Content: Public company/private company/internal service maintenance contracted with the company, Data update
Number of Participants in the project: 8 people
Position(Contribution rate): Frontend(50%), Backend(50%), Infra(10%)
Contribution: Frontend Maintenance, Backend Maintenance, Build a small app infrastructure
Skills used: HTML, CSS, Javascript, Jquery, Spring
Result: Maintenance(E-Land, JTI, BBQ, National Information Resource Management Agency, AMOREPACIFIC, HITEJINRO, JoongAng Ilbo, Seoul Credit Guarantee Foundation)

Service monitoring server development

Progress Period: 2018.11 ~ 2018.11
Main Content: Monitoring of all running services
Number of Participants in the project: 1 person
Position(Contribution rate): Frontend(100%), Backend(100%), Maintenance(100%)
Contribution: Frontend development, Backend development
Skills used: ExpressJS, Javascript, HTML, Bootstrap
Result: Shortened response time by changing from passive response to real-time response

Log data loading API development

Progress Period: 2018.05 ~ 2018.06
Main Content: Real-time loading of address refining log data
Number of Participants in the project: 1 person
Position(Contribution rate): Frontend(100%), Backend(100%), Maintenance(100%)
Contribution: Frontend development, Backend development
Skills used: Spring, Javascript, HTML
Result: Solution delivery(National Information Resource Management Agency)

Internal service restful api server development

Progress Period: 2018.03 ~ 2018.05
Main Content: Providing data based on Restful API
Number of Participants in the project: 1 person
Position(Contribution rate): Backend(100%), Maintenance(100%)
Contribution: Backend development
Skills used: Spring, Mybatis, postgreSQL
Result: Delivery of internal service site data(Daejeon Marketing Corporation)

Web Map Service(WMS) solution development

Progress Period: 2016.11 ~ 2017.03
Main Content: Web Map Service(WMS) solution production
Number of Participants in the project: 5 people
Position(Contribution rate): Frontend(10%)
Contribution: Frontend development, Server resource monitoring page production, API documentation page production
Skills used: HTML, CSS, Javascript, Jquery