

SOFTWARE ENGINEER · ASSOCIATI

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Summary

Software Engineer with 5+ years of professional software development experience. Have worked at Goldman Sachs and Amazon, with strong experience in Java/Kotlin backend and fullstack development. Specialize in software design and architecture, with a particular passion for clean code, testing, and good engineering practices with the intent of writing software that lasts.

Love exploring new technologies and learning new software patterns and languages. Have been streaming software development on Twitch for the past three years, and strongly believe in learning in public and openly sharing knowledge and practices. Always on the lookout for better ways of writing and maintaining software. Interested in meeting like-minded software engineers and working on challenging problems.

Work Experience

Danggeun Pay Inc. (KarrotPay)

Seoul, S.Korea

SITE RELIABILITY ENGINEER & INFRASTRUCTURE TEAM LEAD

Mar. 2021 - Present

- · Everything that matters.
- Designed and provisioned the entire infrastructure on the AWS cloud to meet security compliance and acquire a business license for financial services in Korea.
- Continuously improved the infrastructure architecture since launching the service. (currently 3.6 million users)

Danggeun Market Inc.

Seoul, S.Korea

SITE RELIABILITY ENGINEER Feb. 2021 - Mar. 2021

Kasa Seoul, S.Korea

FOUNDING MEMBER & DIRECTOR OF INFRASTRUCTURE DIVISION

Jun. 2018 - Jan. 2021

- Designed on-boarding process to guide new engineers, help them to focus on the right tasks, and set expectations to help them be successful at Infrastructure team.
- Migrated the orchestration system from DC/OS to Kubernetes which is based on AWS EKS. Managed 3 Kubernetes clusters and 300+ pods. Managed all Kubernetes manifests declaratively with Kustomize and ArgoCD.
- Designed and managed complex network configurations on AWS with 4 VPC and 100+ subnets. Separated the development network and operation network according to financial regulations. Established dedicated network connections from AWS VPC to partners' on-premise network based on AWS Direct Connect with secure connection using IPsec VPN. Provisioned OpenVPN servers with LDAP integration.
- Provisioned a observability system with Kafka, Elastic Stack(Filebeat, Heartbeat, APM Server, Logstash, Elasticsearch, Kibana). Collected log, uptime, tracing data from hosts, containers, pods and more. The ES cluster which has 9 nodes processed more than 1 billion documents per month. Wrote Terraform module to easily provision ES cluster on AWS EC2 instances.
- Provisioned a monitoring system with Kafka, Telegraf, InfluxDB, Grafana. Collected metrics from hosts, containers, pods and more. Wrote Terraform module to easily provision InfluxDB with HA on AWS EC2 instances.
- Introduced Kong API Gateway to easily connect all API microservices with a declarative management method based on Terraform and Atlantis to collaborate and audit change history.
- Provisioned the Directory Service for employee identity management based on OpenLDAP which guarantees HA with multi-master replication.
- Implemented Worker microservices consuming Kafka event topics for email, SMS, Kakaotalk and Slack notification. Developed in-house framework to easily build Kafka consumer microservice with common features including retry on failure, DLQ(Dead Letter Queue), event routing and more.
- Introduced Elastic APM to help distributed tracing, trouble-shooting and performance testing in MSA.

Omnious. Co., Ltd. Seoul, S.Korea

SOFTWARE ARCHITECT Jun. 2017 - May. 2018

- Provisioned an easily managable hybrid infrastructure (Amazon AWS + On-premise) utilizing IaC (Infrastructure as Code) tools like Ansible, Packer and Terraform
- Built fully automated CI/CD pipelines on CircleCI for containerized applications using Docker, AWS ECR and Rancher.
- Designed an overall service architecture and pipelines of the Machine Learning based Fashion Tagging API SaaS product with the micro-services architecture.
- Implemented several API microservices in Node. is Koa and in the serverless AWS Lambda functions.
- Deployed a centralized logging environment (ELK, Filebeat, CloudWatch, S3) which gather log data from docker containers and AWS resources.
- Deployed a centralized monitoring environment(Grafana, InfluxDB, CollectD) which gather system metrics as well as docker run-time metrics.

PLAT Corp. Seoul, S.Korea

CO-FOUNDER & SOFTWARE ENGINEER

Jan 2016 - Jun 2017

- Implemented RESTful API server for car rental booking application (CARPLAT in Google Play).
- Built and deployed overall service infrastructure utilizing Docker container, CircleCl, and several AWS stack(Including EC2, ECS, Route 53, S3, CloudFront, RDS, ElastiCache, IAM), focusing on high-availability, fault tolerance, and auto-scaling.
- · Developed an easy-to-use Payment module which connects to major PG(Payment Gateway) companies in Korea.

R.O.K Cyber Command, MND

Seoul, S.Korea

Aug. 2014 - Apr. 2016

SOFTWARE ENGINEER & SECURITY RESEARCHER (COMPULSORY MILITARY SERVICE)

- Lead engineer on agent-less backtracking system that can discover client device's fingerprint(including public and private IP) independently of the Proxy, VPN and NAT.
- Implemented a distributed web stress test tool with high anonymity.
- Implemented a military cooperation system which is web based real time messenger in Scala on Lift.

ShitOne Corp. Seoul, S.Korea

SOFTWARE ENGINEER Dec. 2011 - Feb. 2012

- Developed a proxy drive smartphone application which connects proxy driver and customer.
- Implemented overall Android application logic and wrote API server for community service, along with lead engineer who designed bidding
 protocol on raw socket and implemented API server for bidding.

Honors & Awards

INTERNATIONAL AWARDS

2021	2nd Place , AWS ASEAN AI/ML GameDay	Online
2020	Finalist, DEFCON 28th CTF Hacking Competition World Final	Las Vegas, U.S.A
2018	Finalist, DEFCON 26th CTF Hacking Competition World Final	Las Vegas, U.S.A
2017	Finalist, DEFCON 25th CTF Hacking Competition World Final	Las Vegas, U.S.A
2014	Finalist, DEFCON 22nd CTF Hacking Competition World Final	Las Vegas, U.S.A
2013	Finalist, DEFCON 21st CTF Hacking Competition World Final	Las Vegas, U.S.A
2011	Finalist, DEFCON 19th CTF Hacking Competition World Final	Las Vegas, U.S.A

DOMESTIC AWARDS

2021	2nd Place, AWS Korea GameDay	Seoul, S.Korea
2015	3rd Place, WITHCON Hacking Competition Final	Seoul, S.Korea
2017	Silver Prize, KISA HDCON Hacking Competition Final	Seoul, S.Korea
2013	Silver Prize, KISA HDCON Hacking Competition Final	Seoul, S.Korea

COMMUNITY

- 2022 AWS Community Builder (Container), Amazon Web Services (AWS)
- 2022 HashiCorp Ambassador, HashiCorp

Certificates _____

2022	AWS Certified Security - Specialty, Amazon Web Services (AWS)	
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- 2022 AWS Certified Solutions Architect Professional, Amazon Web Services (AWS)
- 2019 AWS Certified Solutions Architect Associate, Amazon Web Services (AWS)
- 2021 **AWS Certified SysOps Administrator Associate**, Amazon Web Services (AWS)
- 2020 Certified Kubernetes Application Developer (CKAD), The Linux Foundation
- 2020 HashiCorp Certified: Terraform Associate, HashiCorp

Education

POSTECH(Pohang University of Science and Technology)

Pohang, S.Korea Mar. 2010 - Aug. 2017

B.S. IN COMPUTER SCIENCE AND ENGINEERING

• Got a Chun Shin-Il Scholarship which is given to promising students in CSE Dept.

May 17, 2023 SIDDARTH IYER · RÉSUMÉ 2