

#### SITE RELIABILITY ENGINEER · SOFTWARE ARCHITECT

225, Sector 31, Faridabad, Harayana, India

"Be the change that you want to see in the world."

# **Education**

### POSTECH(Pohang University of Science and Technology)

Pohang, S.Korea

B.S. IN COMPUTER SCIENCE AND ENGINEERING

Mar. 2010 - Aug. 2017

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

# **Skills**

**DevOps** AWS, Docker, Kubernetes, Rancher, Vagrant, Packer, Terraform, Jenkins, CircleCl

**Back-end** Koa, Express, Django, REST API

**Front-end** Hugo, Redux, React, HTML5, LESS, SASS **Programming** Node.js, Python, JAVA, OCaml, LaTeX

**Languages** Korean, English, Japanese

# **Experience**

### Danggeun Pay Inc. (KarrotPay)

Seoul, S.Korea

FOUNDING MEMBER & 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)
- Established a standardized base for declarative management of infrastructures and service deployments, enabling operational efficiency and consistency. Over 90% of AWS resources were all managed through standardized terraform modules. All add-ons and service workloads on the Kubernetes cluster were managed on a GitOps basis with Kustomize and ArgoCD.
- Saved over 30% of the overall AWS costs by establishing a quarterly purchasing strategiy for RI (Reserved Instance) and SP (Savings Plan) and by introducing Graviton instances.
- Established a core architecture for regulating of outbound DNS traffic in multi-account and multi-VPC environments utilizing AWS Route53 DNS Firewall and FMS. This significantly increased the level of security confidence in the financial sector's segregated environment.
- Introduced Okta employee identity solution in the company, establishing security policies and configuring SSO integration with over 20 enterprise systems including AWS, GitHub, Slack, Google Workspace. Set up a Hub and Spoke architecture, enabling a collaborative account

Danggeun Market Inc.

Seoul, S.Korea Feb. 2021 - Mar. 2021

SITE RELIABILITY ENGINEER

**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.
- $\bullet \ \ \text{Provisioned the Directory Service for employee identity management based on OpenLDAP which guarantees HA with multi-master replication.}$
- 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.
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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.js 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.

PLDepleved a centralized monitoring environment (Grafana, InfluxDB, CollectD) which gather system metrics as well as docker run-time metrics.

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, CircleCI, and several AWS stack(Including EC2, ECS, Route 53, S3, CloudFront, RDS, ElastiCache, IAM), focusing on high-availability, fault tolerance, and auto-scaling.

# Undergraduate Research, Machine Leavhing Canalyts to reaior PG (Payment Gateway) companies in Korea.

Pohang, S.Korea

RESEARCHER

Mar. 2016 - Exp. Jun. 2017

· Researched classification algorithms(SVM, CNN) to improve accuracy of human exercise recognition with wearable device. R.O.K. Cyped two TIZEN applications to collect sample data set and to recognize user exercise on SAMSUNG Gear S.

Seoul, S.Korea

SOFTWARE ENGINEER & SECURITY RESEARCHER (COMPULSORY MILITARY SERVICE)

Aug. 2014 - Apr. 2016

- 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.

NEXO mented a military cooperation system which is web based real time messenger in Scala on Lift.

Seoul, S.Korea & LA, U.S.A

GAME DEVELOPER INTERN AT GLOBAL INTERNSHIP PROGRAM

- Developed in Cocos2d-x an action puzzle game(Dragon Buster) targeting U.S. market.
- · Implemented API server which is communicating with game client and In-App Store, along with two other team members who wrote the game logic and designed game graphics.

# Undergraduate Research, Computer Vision Lab(Prof. Bohyung Han)

Pohang, S.Korea

Jan. 2013 - Feb. 2013

RESEARCHER FOR < DETECTING VIDEO'S TORRENTS USING IMAGE SIMILARITY ALGORITHMS>

Sep. 2012 - Feb. 2013

· Researched means of retrieving a corresponding video based on image contents using image similarity algorithm.

Software Maestro (funded by Korea Ministry of Knowledge and Economy) deo relevant to an image on web site.

Seoul, S.Korea SOFTWARE ENGINEER TRAINER Jul. 2012 - Jun. 2013

Performed research memory management strategies of OS and implemented in Python an interactive simulator for Linux kernel memory man-

Shit One 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

SAMSUNG Electronics

FREELANCE PENETRATION TESTER

· Conducted penetration testing on SAMSUNG KNOX, which is solution for enterprise mobile security.

• Conducted penetration testing on SAMSUNG Smart TV.

# **Extracurricular Activity**

#### B10S (B1t 0n the Security, Underground hacker team)

S Koreo

· Gained expertise in penetration testing areas, especially targeted on web application and software.

• Participated on a lot of hacking competition and won a good award.

### Wise Guys (Hacking & Security research group) un.

S.Korea

MEMBER

CORE MEMBER & PRESIDENT AT 2013

Jun. 2012 - PRESENT

Nov. 2011 - PRESENT

Sep. 2013, Mar. 2011 - Oct. 2011

· Gained expertise in hardware hacking areas from penetration testing on several devices including wireless router, smartphone, CCTV and set-

Polapper Wannahe backer about hacking tackning from basic to advanced and ethics for white hackers by hosting annual Hacking Camp Korea

· Reformed the society focusing on software engineering and building network on and off campus.

# PLUS (Laboratory for tinnar sectivity in Post Echipe awareness.

Pohang, S.Korea

Jun. 2010 - Jun. 2017

Sep. 2010 - Oct. 2011

- · Gained expertise in hacking & security areas, especially about internal of operating system based on UNIX and several exploit techniques.
- Participated on several hacking competition and won a good award.
- · Conducted periodic security checks on overall IT system as a member of POSTECH CERT.
- Conducted penetration testing commissioned by national agency and corporation

Sep. 2013 - Jun. 2017

- · Gained knowledge about several business field like Management, Strategy, Financial and marketing from group study.
- · Gained expertise in business strategy areas and inisght for various industry from weekly industry analysis session.

# **Honors & Awards**

### INTERNATIONAL AWARDS

2021	<b>2nd Place</b> , 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
2012	<b>6th Place</b> , SECUINSIDE Hacking Competition World Final	Seoul, S.Korea

#### **DOMESTIC AWARDS**

2021	<b>2nd Place</b> , AWS Korea GameDay	Seoul, S.Korea
2015	<b>3rd Place</b> , 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
2013	2nd Award, HUST Hacking Festival	S.Korea
2010	<b>3rd Award</b> , HUST Hacking Festival	S.Korea
2012	<b>3rd Award</b> , Holyshield 3rd Hacking Festival	S.Korea
2011	<b>2nd Award</b> , Holyshield 3rd Hacking Festival	S.Korea
2011	<b>5th Place</b> , PADOCON Hacking Competition Final	Seoul, S.Korea

#### COMMUNITY

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

### Certificates

2023	AWS Certified Advanced Networking	- Specialty,	Amazon Web	Services (AWS)
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- AWS Certified Developer Associate, Amazon Web Services (AWS) 2023
- 2023 AWS Certified Cloud Practitioner, Amazon Web Services (AWS)
- AWS Certified Security Specialty, Amazon Web Services (AWS) 2022
- 2022 AWS Certified Solutions Architect - Professional, Amazon Web Services (AWS)
- AWS Certified Solutions Architect Associate, Amazon Web Services (AWS) 2019
- AWS Certified SysOps Administrator Associate, Amazon Web Services (AWS) 2021
- 2020 Certified Kubernetes Application Developer (CKAD), The Linux Foundation
- HashiCorp Certified: Consul Associate (002), HashiCorp 2023
- 2023 HashiCorp Certified: Terraform Associate (003), HashiCorp
- 2020 HashiCorp Certified: Terraform Associate (002), HashiCorp

## **Presentation**

### **DevFest Seoul by Google Developer Group Korea**

PRESENTER FOR < HOSTING WEB APPLICATION FOR FREE UTILIZING GITHUB, NETLIFY AND CLOUDFLARE>

· Introduced the history of web technology and the JAM stack which is for the modern web application development.

6th CodeEngn (Reverse Engineering Conference) performance utilizing global CDN services.

Presenter for <DEFCON 20TH: THE WAY TO GO TO LAS VEGAS>

Seoul, S.Korea

Seoul, S.Korea

Nov. 2017

**6th Hacking Camp - S. Korea**) hacking competition and advanced techniques and strategy for CTF

S Korea

PRESENTER FOR <METASPLOIT 101>

Sep. 2012

• Introduced basic procedure for penetration testing and how to use Metasploit

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# A Guide for Developers in Start-up

Facebook Page

FOUNDER & WRITER Jan. 2015 - PRESENT

Ahntab daily news for developers in Korea about IT technologies, issues about start-up.

S.Korea

Undergraduate Student Reporter

Oct. 2012 - Jul. 2013

• Drafted reports about IT trends and Security issues on AhnLab Company magazine.

# **Program Committees**

2016	<b>Problem Writer</b> , 2016 CODEGATE Hacking Competition World Final	S.Korea
2013	Organizer & Co-director, 1st POSTECH Hackathon	S.Korea
2012	Staff, 7th Hacking Camp	S.Korea
2012	Problem Writer, 1st Hoseo University Teenager Hacking Competition	S.Korea
2012	Staff & Problem Writer, JFF(Just for Fun) Hacking Competition	S.Korea