CHUNG HWAN HAN

Backend Engineer

Seoul, Korea

+82 10 4910 3857

cndghks15@gmail.com

Chung Hwan Han

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EDUCATION

Korea University *Seoul, Korea*
BSc in Information Security *03/2019 - 08/2023*

- Software Engineering, Security, Network and Cloud Computing
- 4.02 GPA

Technical University of Munich *Munich, Germany*
Student Exchange *04/2022 - 09/2022*

- Studied Cloud Computing, Distributed System and Peer-to-Peer Network

WORK EXPERIENCE

Corca, Inc. *Seoul, Korea*
MLOps Engineer *07/2021 - today*

- Took charge of MLOps related works at the company which offers AI solution for various clients.
- Built pipelines for data processing, continuous integration, deployment and training.
- Designed and developed high-performance language-neutral ML Model server using gRPC and protobuf.
- Developed real-time data stream with Kafka streams, processing ~300k messages per minute.
- Implemented event driven architecture where Nest.js servers and Go clients are participating, using Redis.
- Managed infrastructures with Pulumi.
- Successfully handled ~300k requests per minute.

Pangea, Inc. *Seoul, Korea*
Backend Developer *10/2021 - 12/2021*

- Developed and deployed the LINE Blockchain based NFT marketplace based on K-Pop idol contents. (https://momentofartist.com)
- RESTful API with Nest.js.
- Web frontend with React, Next.js, redux-saga.
- Managed devOps related works to serve stably for over 15K users.
- AWS ECS, AWS ElastiCache, MongoDB Atlas, CloudFlare, etc.

Mars Green *Seoul, Korea*
Blockchain Developer *07/2021 - 09/2021*

- Developed Smart Contract and web backend for the etherium based NFT gallery 'Mars Green' (https://marsgreen.co).
- Wrote Smart Contract with Solidity and web backend with express.js and ethers.js.
- Connected the Smart Contract and the web server to make continuous tracking and managing through the web site possible.
- Deployed and maintained the service with AWS ECS Fargate.
- Built the CI/CD pipeline with AWS CodePipeline.

CodeWings, Inc. *Seoul, Korea*
Web Full Stack Developer *12/2020 - 07/2021*

- Developed, deployed and maintained the algorithm education platform web service.
- Designed a well-organized REST API with Django RESTful Framework.
- Connected micro-service to each other with gRPC and socket.io.
- Improved frontend of the site to be more interactive and intuitive with Next.js and redux.
- Deployed server using AWS ECS Fargate, EC2, and CodePipeline.

ABOUT ME

MLOps Engineer, Software developer, and Blockchain developer.

LANGUAGES

English • Fluent (C1 Certificate)
Korean • Mother tongue

STACKS

Python
- Django, Flask, Airflow, Pandas

Go
- Protobuf, gPRC, Gin

Typescript
- Nest.js, express.js, ethers.js

React
- Next.js, Redux-saga, Recoil

Solidity
- Hardhat, Alchemy

Container
- docker, docker-compose, kubernetes

IaC
- Pulumi-AWS

AWS
- EC2, ECS, Lambda, CloudWatch

GCP
- VM, BigQuery

CONTRIBUTIONS

pulumi/pulumi-hugo
- #1058

blockcoders/nestjs-ethers
- #135

EXTRA-CURRICULAR ACTIVITIES

DevKor   *Seoul, Korea*
EXECUTIVE MEMBER   *02/2021 - 02/2022*

- Lectured about web backend developing at software development society of Korea University, DevKor, for students of the university in various of major.
- Held an Hackathon for the students, sponsored by 6 companies including AWS and Naver D2.
- Developed and managed the platform for the event. (https://devk.or.kr)

CyKor   *Seoul, Korea*
EXECUTIVE MEMBER   *09/2019 - 12/2020*

- Participated many hacking competitions such as DEFCON, CODEGATE, zer0pts as a member of the hacking team, CyKor.
- Lectured about web security and hacking techniques at cyber security society of Korea University, CyKor, for students of Department of Cyber Security.
- Held a CTF as a member of the team CyKor. More than a hundred of competitor participated.
- Developed a platform for the competition. Served and managed tens of challenges made by me and my teammates with docker and three on-premise linux machines

Contract Research Project   *Seoul, Korea*
PENETRATION TESTER   *12/2020 - 07/2021*

- As a contract research project which has assigned to department of Cyber Security of Korea University.
- Found several vulnerabilities and exploits including Stored XSS, Information disclosure, open redirect, etc at one of Korea's largest game companies' web services.

PROJECTS

nestjs-slack-listener   *Github*
NEST.JS MODULE FOR BUILDING SLACK APPLICATIONS.   *03/2022*

- Wrote a blog post about this project (link)
- Developed decorators that help build Slack applications with Nest.js, in typical Nest.js-style
- Published on npm

i-wanna-play-minecraft   *Github*
AUTOMATED MINECRAFT SERVER CLOUD PROVISIONING TOOL   *10/2022*

- For those who want to serve Minecraft server but poor
- Provision a running Minecraft server instance in cloud instantly with only one command
- Pause, restart, or even destroy the instance with one command
- Specify amount of time to run the server to reduce the costs
- Used Pulumi and Go client of it

gimi   *Github*
CLOUD-BASED MALICIOUS URL DETECTION SYSTEM.   *09/2022 - On going*

- Inspect the URL using containers and detect whether it is malicious or not
- Provision a new container for each URL to inspect it in isolation, just like FaaS
- Built a simple FaaS platform, to operate heterogenous functions in cloud
- Used NestJS for controllers and micro-services, Docker Go client for container management, protobuf for communications

HONORS

| 2020 | **8th Place,** DEFCON#28 CTF | *Online* |
| 2020 | **6th Place,** CODEGATE2020 CTF | *Online* |