CHUNG HWAN HAN

Backend Engineer

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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 offering AI solutions for various clients.
- Designed and developed closed-loop backend system enabling use of real-time feedback, successfully handled ~100k requests per minute.
- High-performance language-neutral gRPC ML Model server written in Go
- HTTP/WebSocket server using Nest.js, with event-driven architecture using Redis
- Infrastructures managed with Pulumi.
- Real-time data stream processing ~100k messages per minute using Kafka
- Pipelines for data processing, CI/CD and continuous training.

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.
- Co-operated with senior developers who worked at the Google, Kakao, etc.
- 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 reliable, efficient and effective server system with AWS ECS Fargate and EC2.

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 KU, DevKor, for students of KU in various of major.
- Held an Hackathon for students of Korea University, 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 KU, CyKor, for students of Department of Cyber Security.
- Held a CTF for students of Korea University 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 *03/2022*

- 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

HONORS

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