

# INTAEK HWANG

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## Experience

### R.O.K. Navy Headquarters

June 2022 – February 2024

*AI Engineer*

*Gyeryong, South Korea*

- Enhanced the naval regulation search engine for retrieval-augmented generation(RAG) of the Naval Regulation Chatbot with Python; built an HTML-based knowledge base for the naval regulations using OCR and applied it to an information retrieval model, **saving an average of 4 minutes per regulation search with 94.5% accuracy**
- Optimized patient appointment scheduling at the Pohang Naval Hospital; trained treatment time prediction models with real-world treatment data, **reducing patients' waiting time by 62%**
- Enriched the operation of the Korean-English translator specialized in the military domain; facilitated in-depth logging and stored the logs as structured data to be used for the development of the translator using Java, Spring, Python

### Thumbs(formerly Huttak)

December 2021 – June 2022

*Software Engineer*

*Daejeon, South Korea*

- Designed and implemented RESTful APIs for a study support service that groups university students by their preferred way to learn, using Spring Boot, JPA, MySQL, AWS
- Automated creating the groups, **reducing clustering time by 75% using Python**

## Projects

### Online Competition Platform

July 2021 – October 2021

- As the head of a team, led the design and development of core features using Spring, JSP, jQuery, MyBatis, AWS and managed the entire development process in the GitHub flow

### CPTED Helper

February 2020 – May 2020

- Selected the TOP 20 most crime-prone streets in 685 streets in Dongjak-gu, Seoul using the  $k$ -means clustering and proved the result through a field survey, accelerating the Dongjak-gu CPTED(Crime Prevention Through Environmental Design) project

## Skills

**Computer Language:** Python, Java, JavaScript

**Data/AI:** PyTorch, Keras, NLP, Computer Vision, Processing Tabular Data

**Backend:** Spring Boot, JPA, MySQL, ORM, Testing, RESTful API

**DevOps:** Linux, Docker, AWS

**Computer Science:** Data Structure, Algorithm, OS, DB, OOP

**Language:** Korean, English, Russian

## Awards

Director General of Naval Future Innovation Research Group's Award

February 2024

Director General of Center for Army Analysis and Simulation's Award

November 2023

Chief of Naval Operations' Award

January 2023

R.O.K. Military AI Competition 1st prize

December 2022

Dongjak-gu Big Data Policy Ideation Challenge 2nd prize

May 2020

## Education

### DJIT 21

April 2021 – October 2021

*Software developer training course(Java, Python)*

*Daejeon, South Korea*

### Chung-Ang University

March 2017 – August 2021

*B.A. in Russian Language & Literature, B.E. in Electrical & Electronics Engineering*

*Seoul, South Korea*

## Certifications

### Engineer Information Processing

August 2021

*The Ministry of Science and ICT, South Korea*

## Others

### CUAI

September 2019 – August 2020

*AI society at the Chung-Ang University*

*Seoul, South Korea*