

# Yunho Kee

## OBJECTIVE

To design [feasible](#) systems and fill in the gaps in reusable software by leveraging the principles of computer science

## SKILLS

Java | Spring Framework | Python | Django REST Framework | FastAPI | JavaScript | Apache Airflow | Celery | Amazon DynamoDB | PostgreSQL | Oracle | GitHub Action | Maven | Terraform Cloud | AWS IAM | SSH Tunneling

## WORK EXPERIENCE

Backend Developer

Haezoom

Seoul, South Korea

1 yr 9 mos

12/2022 - 08/2024

### Solar Power Forecasting System Enhancement (50k+ daily transactions)

- Fixed the algorithm with leakage, boundary errors, invalid cache, and timezone bugs ([open source contribution](#))
- Fulfilled **24x more frequent** requests, reducing processing time from 3 hours to 2 minutes (**90x faster**) through chunking, file compression, tensor transposition, and preprocessing (AWS Fargate, NumPy, netCDF4, SciPy)
- Optimized coordinate transformation by reverse engineering (**47 s → 14 μs, float32 → float64, 99.55% → 100%**)
- Polled asynchronous inputs using non-blocking read-through caching and two-pointer techniques (Apache Airflow)
- Customized **serializers** to respond in the requested **timezone** and **autofill** periods (Django REST Framework)
- Integrated third-party APIs for consistent geocoding, reverse geocoding, and address search (FastAPI)

### Settlement System Development (10k+ daily inserts)

- Utilized [primitive floating-point numbers](#) instead of **decimal** objects, testing accuracy against [online judge data](#)
- Modeled formulas as directed acyclic graphs (**DAGs**) loaded by reflection and evaluated asynchronously (Celery)
- Stored results as **segment trees** with **soft delete**, **partial indexes**, and **covering indexes** (PostgreSQL)
- Customized **filters** to set the default **timezone** and **autocomplete** periods from dates (Django REST Framework)

### Cloud Security System Development (RBAC, ABAC, Terraform Cloud, AWS IAM)

- Managed just-in-time access using **roles**, break-glass access via **tags**, and network infrastructure as code (**IaC**)

DevOps Engineer

MidasIn

Pangyo, South Korea

5 mos

05/2022 - 09/2022

- Developed a **cross-account** AWS user management system with **observability** (Spring Boot, Fluent Bit, Datadog)

Software Developer

Republic of Korea Navy

South Korea

1 yr 8 mos

06/2020 - 02/2022

- Developed an **internet-based** [grievance service](#) and **intranet** services for educational assessment ([exceptional award](#)), mental health assessment, and attendance management, fixing [missing rows](#) (Spring Framework, Oracle)

## PROJECTS

LeetCode Daily Google Sheets Apps Script (JavaScript, GraphQL)

1 mo

01/2025 - 02/2025

- Replaced individual uploads with periodic [crawling](#), and an optional Chrome extension with a **bookmarklet** script

Woowacourse Java Format (Java, Gradle, Maven, GitHub Actions)

2 mos

10/2024 - 11/2024

- Deployed IDE plugins (IntelliJ, Eclipse), **cross-platform** binaries (macOS, Linux, Windows), and to [Maven Central](#)

WICWIU (C++, CUDA, cuDNN, CNN, Batch Normalization, ReLU, Sigmoid)

10 mos

07/2017 - 05/2018

- Released the **first** [open-source](#) deep learning framework among Korean universities ([outstanding paper award](#))

## CONTRIBUTIONS

[types-confluent-kafka](#) (Python) | Posit (RStudio) [Quarto](#) (PowerShell) | Sandia (SNL) [pvlb python](#) | [Static JIRA issue export](#) (PHP) | Python Polyolith Example ([Serverless Framework](#), [Shell](#)) | [Course: GitHub Pages](#) (65.2k repos, Jekyll)

## EDUCATION

B.S. in Computer Science and Engineering ([Seoul Accord](#) recognized program), GPA 3.95/4.5 (**Cum Laude**)

Handong Global University

Pohang, South Korea

5 yrs

03/2015 - 02/2020

- 2019 ACM-ICPC Seoul Regional [Finalist](#)
- Teaching Assistant:** ICT Problem Solving (Spring 2019), Computer Architecture and Organization (Fall 2018), Algorithms Analysis (Spring 2018), C Programming Lab (Fall 2017), C Programming (CSEE) (Summer 2017)

## CERTIFICATIONS

Engineer Information Processing

National Technical Qualification

South Korea

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08/2021