

# 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 Actions | 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

[Quarto](#) (PowerShell), [Posit](#) (RStudio Inc) | [pylib python](#), [Sandia \(SNL\)](#) | [Static JIRA issue export](#) (PHP), [Netresearch](#) | [Python Polylith Example](#) (Serverless Framework) | [Course: GitHub Pages](#), 61.8k ([42k+19.8k](#)) repositories (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