

GyuHyeon Hwang

Software Engineer

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Skills

Tech stacks

- Programming Languages: C++, Java, Python
- Frameworks: Spring, Django (DRF), Flask
- Database: MySQL, Firebase
- Server: Nginx, Gunicorn, Apache tomcat
- Web: Servlet/JSP, PHP, HTML, CSS, JavaScript
- Tools: Docker, AWS, Git

Languages

- English (Professional)
- Korean

Experience

Software Developer Intern @Head Start SV

2022.06 – 2022.07, Seoul, South Korea (Hybrid)

Python, Django, MySQL, Nginx, Gunicorn, Docker, AWS, Git

- **Led back-end development** for the **Recommade** project, an AI-driven music recommendation platform that suggests music based on uploaded images.
- Improved API performance by optimizing Gunicorn worker settings, reducing response times from **10 seconds to 2 seconds, resulting in an 80% efficiency boost.**
- Utilized Docker to containerize the application for seamless testing and deployment, improving team productivity and **reducing setup time by 30%.**
- Collaborated closely with the front-end and AI teams to ensure smooth communication between components, enhancing the overall user experience.

Software Engineer Intern @Flug Mediaworks

2021.07, Cheongju, South Korea

PHP, JavaScript, MySQL, HTML, CSS

- Contributed to **the full-stack development of a new service feature** using PHP and JavaScript, handling both the front-end and back-end components.
- Developed and deployed **a fully functional English version** of the company's website, enhancing global accessibility for users and expanding market reach.
- Assisted in maintaining and updating the MySQL database.

Project

Recommade – Recommend musics related to uploaded photo, HeadStart SV

2022.06 – 2022.07

Python, Django, MySQL, Nginx, Gunicorn, Docker, AWS, Git

- Architected the back-end system, designing the core APIs that handled user data, image uploads, and music recommendations using Django.
- Deployed the entire application to AWS EC2 using Docker Compose, integrating all system components (back-end, front-end, AI, database) into a unified and scalable solution.

LUNAR AI – AI-based intelligent surveillance system, won at Open-source SW 2nd

2021.05 – 2021.10

Python, Django, MySQL

- Developed and optimized **API endpoints** using Django and MySQL for real-time face-detection data.
- Assisted in integrating the AI surveillance model into the system.

Analysis of Solar Power Prediction with Data-Driven Approaches

2021.05 – 2021.10

Python, Pandas

- Pre-processed large weather and solar power datasets using Pandas, ensuring accuracy and eliminating noise.
- Applied the ARIMA model to predict solar power generation, achieving a 5% improvement in forecast accuracy using differencing.