



Education

B.S. in Software Convergence and Industrial Management Engineering (Double Major)

Kyunghee University
Feb.2018 - Feb.2025 (Expected)

Activities

Student Representative of Junior

Yongin-si, S.Korea | Feb.2022 - Feb.2023

- Developed an order system of festival based on QR menu using Django and React within three days when two staff members unexpectedly became unavailable.

Silicon Valley Software Technology and Innovation Program

San Jose, CA, USA | Jul.2022 - Aug.2022

- Developed an application analyzing user tastes from reviews and recommending OTT platforms and content based on Flask and Flutter.
- Won Entrepreneurship Award (Third Prize).

Teenagers Mentoring Club, GGUMINDREAM 18th Leader

Seoul, S.Korea | Aug.2021 - Aug.2022

- Led 'GGUMINDREAM' which has 25 members.
- Organized mentoring lecture which has 50 participants and volunteer mentoring programs for teenagers.

Hanyang University Like Lion 9th

Seoul, S.Korea | Mar.2021 - Dec.2021

- Studied full-stack web development and developed a location-based SNS platform for sharing useful information among local residents.
- Participated as the only student from other university.

Kyunghee University Global Ambassador

Yongin-si, S.Korea | Sep.2021 - Dec.2021

- Assisted international exchange students with acclimating to campus life.

Awards

Kyunghee University Capstone Design Contest

Excellence Prize | Kyunghee University LINC 3.0

Capstone Design Contest

Encouragement Prize | Yongin Industry Promotion Agency

Silicon Valley Software Technology and Innovation Program - Entrepreneurship Award

Third Prize | San Jose State University

Skills

Python ●●● JavaScript ●●○
SQL ●●● C++ ●○○

[Data Engineering & Web/App Development]

Airflow, AWS(EC2, RDS, S3, VPC), Docker, PostgreSQL, MySQL, Oracle, React.js, Node.js, PHP, Django, Firebase, Git

Jeongmin Seo



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Website



GitHub

I am highly interested in communicating with stakeholders to align with business needs, selecting overall architecture and tools, and developing projects with scalability in mind. Additionally, I enjoy the process of creating the most efficient projects by deeply analyzing and considering every detail with a meticulous and thorough approach.

Work Experience

Data Engineer Intern

Jan.2024 - Feb.2024

Visang Education Data Platform Cell | Seoul, S.Korea

- Designed ETL pipeline using Airflow within an AWS VPC network.
- Developed ETL pipeline that connects databases used by in-house brands (MySQL, PostgreSQL, and Oracle), data warehouse, and in-house data portal which I developed.
- Deeply analyzed and optimized not only my code but also the overall pipeline to build the most efficient and error-free pipelines, and meticulously addressed error cases that even my senior supervisor had not identified.
- Achieved a 37-second reduction in the processing time of approximately 50,000 data.
- Tech : Airflow, AWS (S3, RDS, VPC), Docker, Git, PostgreSQL, MySQL, and Oracle

Student Intern (International Scholarship)

Sep.2023 - Dec.2023

Purdue University Department of Computer & Information Technology Lab
West Lafayette, IN, USA

- Developed a concentration measurement app by analyzing the correlation between Bio-Data and Concentration levels.
- As team leader, created contingency plans and proposed solutions aligned with our goal, encouraging the team to troubleshoot architectural issue.
- Although we had to pivot from real-time to daily data reports due to a device issue, authored and presented a paper(currently under review), receiving high praise from the professor.
- Tech : Python, Jupyter Notebook, and Django

Data Engineer Intern

Jul.2023 - Aug.2023

Visang Education Data Platform Cell | Seoul, S.Korea

- Planned and developed front-end part of in-house data portal as part of the data platform project.
- Proactively approached many colleagues, to identify automation needs and data requirements, leading to the plan of a data analysis community feature in data portal; successfully demonstrated the portal at a seminar with 400 participants, receiving high praise from the CEO.
- During the process of migrating a public prototype to a VPC network, researching and comparing various solutions for scalability, cost, and performance, which sparked a deep interest in architecture design.
- Tech : AWS (EC2, VPC), PostgreSQL, React.js, Tailwind CSS, Git, Figma

Main Projects

Improvement of Reservation System for Library based on Computer Vision

TEAM LEADER & FULL-STACK DEVELOPER & AI RESEARCHER

Team Project

- Developed an improved reservation system that automatically processes check-outs when unreturned seats or hogged seats are detected in real-time by camera.
- During the process of enhancing real-time functionality, encountered an issue with camera streaming. As the team leader, coordinated the schedules of the data analysis and development teams to troubleshoot, and resolved the problem through network port forwarding using a router.
- Won two capstone design contests.
- Tech : React.js, Django, SQLite, and YOLOv5

Look-At-Me (E-Learning Desktop Application to Track and Enhance Concentration)

FULL-STACK DEVELOPER & AI RESEARCHER

Personal Project

- Developed a desktop application that records concentration score based on gaze tracking and helps to maintain focus during e-learning.
- Encountered an issue where the developer's camera was activated instead of the user's while controlling the camera with OpenCV.
- Resolved the issue by effectively using Tensorflow.js to transfer video frames from the client side to the server, avoiding a complete architecture overhaul.
- Tech : React.js, Django, SQLite, Electron, Tensorflow.js, Dlib, and OpenCV