Jeongmin **Seo**

ENTRY-LEVEL DATA ENGINEER

Senior, B.S. in Industrial Management Engineering and Software Convergence, Kyunghee University

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"I'm a growth-oriented developer with a strong sense of responsibility."

Key Skills

Data Engineering : Airflow, Docker, AWS(RDS, S3, etc.), PostgreSQL, and MySQL
Web/App Development : React, Django, Firebase, and AWS EC2

Work Experience

Visang Education - Data Platform Cell   *Seoul, S.Korea*

DATA ENGINEER (INTERN)   *Jan.2024 - Feb. 2024*

- **Built ETL data pipeline** that extracts data from 30 in-house brands to data warehouse and load metadata to in-house data portal.
- Process and provide data in the format required by other teams (such as csv files).
- Improved the efficiency of the data pipeline through code refactoring, introduction of batch processing, and other measures.
  Reduced the task time by 37 seconds for about 50,000 data.
- Developed ETL automation code for each database type for various types of databases such as MySQL, PostgreSQL, and Oracle.
- *Skillset : Airflow, Docker, AWS, Git, PostgreSQL, Oracle, and MySQL*

DBA & FRONT-END DEVELOPER (INTERN)   *Jul. 2023 - Aug. 2023*

- Planned and developed the front-end part of the in-house data portal.
- Contributed to establishing data governance, including metadata management and building a standard terminology dictionary.
- *Skillset : React, Tailwind CSS, Git, PostgreSQL, Figma, and Excel*

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

INTERNATIONAL SCHOLARSHIP (STUDENT INTERN)   *Sep. 2023 - Dec. 2023*

- Wrote a paper titled "Establishing the Correlation Between Bio-Data and Concentration Level Utilizing EEG Data", currently under review.
- Preprocessed bio-data into a form suitable for analysis, such as standardizing timestamps of bio-sensor data originating from two different devices and processing sensor error data.
- *Skillset : Python and Django*

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.
- Resolved real-time camera streaming issue through network port forwarding using a router.
- Awards : Capstone Design Competitions (Kyunghee University and Yongin Industry Promotion Agency)
- *Skillset : React, 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.
- Fixed wrong camera activation with TensorFlow.js for frame transfer from the client side to the server.
- *Skillset : React, Django, SQLite, Electron, Tensorflow.js, Dlib, and OpenCV*

Main Program & Activity

Hanyang University Like Lion 9th   *Seoul, S.Korea*

CERTIFICATED STUDENT   *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 and carried out the project with one beginner teammate.
- *Skillset : Javascript, Node.js, React, Typescript, Django, AWS, Heroku, and Firebase*

Silicon Valley Software Technology and Innovation Program   *San Jose, CA, USA*

CERTIFICATED STUDENT   *Jul. 2022 - Aug. 2022*

- Developed an application analyzing user tastes from reviews and content evaluations, recommending OTT platforms and content.
- Award : Entrepreneurship award
- *Skillset : Flask and Flutter*