

JISU PARK

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Data Engineer with experience in developing sustainable and cost-efficient data pipelines. Experienced in designing data workflows using big data frameworks to support large-scale workloads across on-prem and cloud environments. Proven track record of enhancing performance and cutting costs through automation and optimization.

PROFESSIONAL EXPERIENCE

Kakaohealthcare Corp.

Data Engineer

Seongnam, Korea

Jan. 2023 – Present

- Developed and maintained reusable **pipeline modules** to standardize data workflows across **15+ tertiary hospitals, reducing rollout time and operational variance**
- Deployed and managed **Hadoop and Kubernetes-based Airflow clusters** across **on-premise and cloud environments**
- Designed and orchestrated **1,000+ Airflow DAGs** processing **100M+ records** per project with an **idempotent and failure-resilient design**
- Executed large-scale initial loads exceeding **1TB** and **optimized** long-running batch **jobs** through query tuning and partitioning, **reducing execution time by up to 90%**
- **Reduced pipeline infrastructure costs by up to 30%** using On-demand provisioning and A/B testing of resource configurations to optimize performance-to-cost ratio
- **Developed de-identification functions** for unstructured (free-text) data using Spark UDFs and NLP
- **Automated validation and pattern detection** for de-identification functions using **sLLM** to improve consistency and **reduce manual QA effort by up to 90%**

Linewalks

Data Engineer

Seoul, Korea

May 2022 – Dec. 2022

- **Designed and executed a PoC data pipeline** to validate the feasibility of large-scale workloads using hadoop ecosystem for clinical data
- **Migrated complex 20+ Oracle stored procedures** (~1,000 lines) to SparkSQL

SKILLS

Programming Languages

Python, SQL

Frameworks & Libraries

Hadoop, Spark, Hive, Zookeeper, Airflow, Iceberg, Delta Lake

DevOps

Git, Docker, Kubernetes, Helm, Jenkins

Cloud Service Providers

Google Cloud Platform, KakaoCloud

Databases

Postgres, Oracle

Languages

Korean (native), English (proficient), German (intermediate)

EDUCATION

Korea University

M.A. in Clinical and Counseling Psychology

Seoul, Korea

Sep. 2019 - Aug. 2021

Korea University

B.A. in German Language and Literature

B.A. in Psychology (Double Major)

Seoul, Korea

Mar. 2013 - Aug. 2019

Universität Tübingen

Exchange Student in the German as a Foreign Language and Intercultural Programs

Tübingen, Germany

Sep. 2016 - Feb. 2017