

Esther Sun Young CHOI

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WORK EXPERIENCE

FOODPANG (Seoul, South Korea)

DataOps Engineer

September – November 2025

Data Analysis, Data Processing, LLMs

- Enriched internal databases using LLMs to improve data usability and analysis.
- Optimized data processing pipelines for efficiency and reliability.
- Delivered real-time dashboards to support faster, data-driven decision making.

SURROMIND (Seoul, South Korea)

Machine Learning Engineer

March 2023 – August 2025

Software Development, R&D, Machine Learning, Deep Learning, LLMs

- Integrated AI solutions to accelerate or enhance human workflows across various domains.
- Implemented end-to-end ML workflows, integrating data pipelines, model training and evaluation.

EDUCATION

2021 – 2023

Sorbonne University
Paris, France

MSc DATA SCIENCE

Machine Learning, Deep Learning, Computer Vision, NLP, Databases

2018 – 2021

Sorbonne University
Paris, France

BSc DOUBLE MAJOR IN MATHEMATICS AND COMPUTER SCIENCE

Data Structures and Algorithms, Databases, Logic, Probabilities, Calculus, Algebra

COMPUTER SKILLS

PROGRAMMING Python, R, SQL

FRAMEWORKS PyTorch, Tensorflow, Transformers, FastAPI

DATABASES MySQL, Milvus, PowerBI

TOOLS Git, Docker, GCP, Grafana, Jenkins

COMMUNICATION SKILLS

FRENCH Native speaker

KOREAN Native speaker

ENGLISH Fluent, C1 level (CAE 182 pts)

PROJECTS

DATABASE ENRICHMENT (SEP-NOV 2025)

- **High-value features extraction** and **generation** using **LLMs** to enrich internal databases and support upselling strategies
- **Topics : LLM, Prompt engineering, Feature extraction and generation**
- **Tech : Python, OpenAI**

DATA PIPELINE OPTIMIZATION (SEP 2025)

- **Automate data pipelines**, improving **time efficiency** by eliminating manual data manipulation
- **Topics : Data processing, Pipeline optimization**
- **Tech : Python, R, MySQL, Jenkins**

LLM BASED TRANSLATION (JAN-JUN 2025)

- **LLM based translation** from English to French in **Healthcare** domain using specifically curated dictionary
- **Topics : LLM, Machine translation, Prompt engineering**
- **Tech : Python, OpenAI, NLTK, FastAPI**

AI DIGITAL TEXTBOOK (JUN-SEP 2024)

- **LLM** powered English **digital textbook** for Korean elementary school students
- Development of a **chatbot** to answer FAQs about the digital textbook
- **Topics : Text embedding, Vector search**
- **Tech : Python, Transformers, NLTK, FastAPI**

ROBOT ARM CONTROL (SEP 2024-FEB 2025)

- **Robotic arm** manipulation using **OpenVLA**
- **Topics : VLA models, robot, simulation**
- **Tech : Python, PyTorch, Transformers, Isaac Gym**

SOUND AND VIBRATION ANALYSIS (MAR 2023-JUN 2024)

- **No-code platform** for **sound and vibration data analysis** for electric cars
- Complete **MLOps** pipeline from data preprocessing to DL models training and deployment
- **Topics : Time series analysis, MLOps, AutoML**
- **Tech : Python, PyTorch, FastAPI, MLflow, Ray**

STRENGTHS

- Quick learner with good grasping ability.
- Initiative, Logical thinking.
- Easily collaborate with team members.
- Autonomous and meticulous.

INTERESTS

- Generative AI: LLMs, VLMs, VLAs
- Video games and puzzle