

01 // SUMMARY

AI / ML engineer and Data Scientist with a B.S. in Cognitive Science, Machine Learning & Neural Computation. Experienced in building production-grade LLM solutions, including RAG pipelines and recommendation systems deployed for major Korean financial and hospitality platforms. Independently designs and ships end-to-end data intensive projects spanning generative probabilistic models, civic tech platforms, and quantitative trading systems. Fluent in English, Korean, and conversational French and Chinese.

Track record of working across Korea and the US in fast-moving startup and enterprise environments.

02 // EDUCATION

University of California, San Diego

Graduated Mar 2026

B.S. Cognitive Science, Machine Learning & Neural Computation

3.5 Major GPA · Cognitive Science Student Association · Associated Students Government · Club Swim

Seoul Foreign High School

Graduated Jun 2019

International Baccalaureate, High Honors

3.83 GPA · Varsity Swim Captain · APAC Orchestra

03 // EXPERIENCE

SNU Biointelligence Lab

Research

Jun 2026 – Present

Researcher · Seoul, South Korea

- › Research at Seoul National University Biointelligence Lab.
- › Physical AI projects with the ALOHA robot as well as deep learning.

GenON

AI Solutions

May 2023 – Sep 2023

Data Science Intern · Seoul, South Korea

- › LLM-based financial document summarization and Q&A system for Woori Bank using retrieval-augmented generation and prompt engineering, training data augmentation with open-source models to deliver accurate, user-driven answers.
- › LLM-powered recommendation assistant for GoodChoice, Korea's leading hotel reservation platform, improving search narrowing and surfacing personalized hotel recommendations.
- › Reduced hallucinations in model outputs through systematic research into temperature tradeoffs and prompt engineering, building rigor for shipping reliable on-premise AI.

Hotel Shilla

Operations

Jun 2022 – Sep 2022

Management Intern · Seoul, South Korea

- › Coordinated and translated core operational documentation supporting the launch of the Shilla Monogram Hotel in Da Nang, Vietnam.

Code:Wings

EdTech

May 2020 – Sep 2020

Intern · Seoul, South Korea

- › Edited and optimized online software-engineering textbooks at Korea's first online software-education startup, aligning instructional content with learner needs.

LearnSesh

XR · Research

Nov 2019 – Apr 2020

UX Intern · San Diego, CA

- › Conducted market and UX research at an XR-based education startup to inform product direction and feature development.

04 // PROJECTS

PoliScope

poliscope.kr

- › Civic transparency platform tracking 286 National Assembly members across bill proposals, votes, and attendance.
- › Built with Next.js, TypeScript, Supabase (PostgreSQL), Upstash Redis, and D3.js + TopoJSON for interactive district maps. 18,128 bills · 1,548 recorded votes · AI summaries on ~1,360 passed laws · data refreshed daily via automated pipeline.
- › AI curation that ranks bills by impact per user type (workers, students, self-employed, etc.)

RAG Pipeline

Python · RAG · LLM Evaluation

- › A two-part RAG pipeline originally built for Woori Bank at GenON: one tool extracts and structures text & tables from PDFs, the other generates and scores Q&A datasets against them for evaluation and fine-tuning.
- › Later generalized and open-sourced from the originally deprecated internship codebase.

OKX Algorithmic Trading

Python · Trading Systems · ETL

- › Solo algorithmic trading research operation on perpetual futures markets with the OKX API, built on a custom ETL trust layer with daily strategy validation.
- › Top 100 in OKX trading competition.

05 // COURSEWORK

COGS 185**Advanced Machine Learning Methods**

- › Classification, SVM, Markov networks, CRFs, Auto-context models, Graphical, Sequential models, HMM, Transformers and more

COGS 181**Neural Networks and Deep Learning**

- › Deep Learning techniques such as CNN, RNN, LSTM, and Reinforcement Learning.
- › End-to-End model training, focusing on image classification tasks.

COGS 188**Artificial Intelligence Algorithms**

- › New Artificial Intelligence algorithms from topic models used in text data analysis to genetic algorithms.

COGS 150**Large Language Models**

- › Basic mechanics of LLMs and role of sensorimotor grounding in cognition and development of multimodal LLMs.

COGS 118A, 118B**Introduction to Machine Learning, Supervised Machine Learning Algorithms**

- › Maximum likelihood estimation, Bayesian parameter estimation, Clustering, Principal component analysis.
- › Regression, Nearest neighborhood, Decision tree, Support vector machine, Ensemble classifiers.

COGS 189**Brain Computer Interface**

- › Signal processing, Pattern recognition algorithms, Human-computer interaction issues in EEG-based brain-computer interfaces.

DSC 20**Programming and Data Structures with Python**

- › Object-Oriented programming, Data structures, Higher order functions, Modeling.

06 // SKILLS

Python, NumPy, Pandas, Pytorch, Scikit-learn, SQL, AWS, Tableau, Snowflake, Kubernetes

Machine Learning, Deep Learning, LLMs, RAG, SLMs, Prompt Engineering, Agentic AI

Statistical Data Analysis, EDA, Probability, Linear Algebra, Calculus, Algorithms