

Minki Jung

AI ENGINEER

with B.Sc in physics and philosophy

CONTACT

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Currently in Ottawa (moving to Montreal on July 1st 2024)

STATUS

Permanent Resident of Canada

SKILLS

Language:

Python, TypeScript

Tools/Frameworks:

LangChain, LangGraph, LlamIndex, DSPy, NeMo Guardrail, Modal, Pandas, Pytorch, Numpy, Matplotlib, ROS, Git, ReactJS, Redux, NextJS, NodeJS, Django, MongoDB, PostgreSQL

AWARDS

Best Graduation Thesis

"Measurement of Z Boson Mass by using CMS Open Data with ROOT(Data Analysis Framework developed by CERN)" (2019)

ACHIEVEMENTS

Youth Hostel Travel Club

Led the club at Hanyang University from 2014 to 2015. Increased club membership from 16 to 100+ people through active promotion and team managements.

Korean Marine Corps

Volunteered and served for 2 years (2015-2016) in the military intelligence department.

INTERESTS

Entrepreneurship, Machine Learning, Intelligence, Psychology, Mindfulness, Productivity, Neuroscience, Anti-aging, Gut Health, Growth.

CORE COMPETENCIES

1. With a foundation in physics & philosophy, I excel in understanding logical structures and analyzing complex problems into fundamental elements.
2. Equipped with a background in full-stack and AI engineering, I'm ready to create innovative AI-powered solutions for customer-centric products.

EDUCATION

Artificial Intelligence Software Development, Algonquin College, Ottawa

SEPTEMBER 2023 — APRIL 2024

Bachelor of Science, Hanyang University, Seoul South Korea

MARCH 2013 — MAY 2020

Major: Physics, Minor: Philosophy.

EXPERIENCE

AI Developer at Agriculture and Agri-Food Canada

MAY 2024 — AUGUST 2024, FULL TIME (CO-OP)

- Enhanced AI chatbot for government services, focusing on prompt injection prevention and guardrails.

Full Stack Developer at SLiDE

MAY 2023 — APRIL 2024, FULL TIME (CONTRACT)

- Built a ReactJS web application with Django backend server.
- Improved loading time by identifying the latency in data query, resulting in a 2 second improvement. [view website here](#)
- Crafted an email notification system with a user-friendly design.
- Integrated the AWS to save and return files to the user, enhancing the platform's data storage and retrieval system.

Founder of Koppulso

MARCH 2022 — OCTOBER 2022, SELF EMPLOYMENT

- Coded and designed a library book catalogue that translates illegible romanized Korean book titles from the Toronto Public Library using *Python, BeautifulSoup, ReactJS, and NodeJS*. [view website here](#)
- Recruited and led 2 front-end developers.
- Website was recognized by the biggest Korean newspaper in Canada, The Korea Times, introduced on the first page. [view article here](#)
- Attracted **6K+** visitors with **2-mins** average engagement time.

KEY PROJECTS

LLM App: AI survey chatbot with LangGraph and DSPy

MARCH 2024 — PRESENT (PERSONAL SIDE PROJECT)

- Learned and applied AI-related skills such as prompt optimization using DSPy and flow engineering with LangGraph.
- Built a memory system of the survey agent that collects and organize information from users' reply.

Computer Vision: Arthropod Detection for Agriculture Canada

SEPTEMBER 2023 — APRIL 2024 (SCHOOL CLIENT PROJECT / PROJECT LEAD)

- Trained a specialized computer vision model to accurately identify insects from images sourced from yellow sticky traps. [view notebook here](#)
- Optimized performance by leveraging SAHI and focal loss. Deployed the inference server on Modal and built a streamlit web app. [view app here](#)

LLM App: AI Powered Recipe App

NOVEMBER 2023 — JANUARY 2024 (PERSONAL SIDE PROJECT)

- Built full-stack web application with OpenAI GPT4 and Dall-E APIs with LangChain. [view website here](#) / [view blog post here](#)
- Crafted effective prompts to enhance performance of the AI systems.