

# Raeyoung Chang

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## EDUCATION

### University of Toronto / Government Scholarship

Graduate

*Toronto*

Jan. 2025 – Jul. 2025

2025 AI Convergence Education Program(Meng)

Sponsored by the Korean Government (IITP)

Selected as one of the 34 final candidates

### Sogang University (GPA 4.24/4.5) / Full-ride Government Scholarship

Graduate

*Seoul*

Feb. 2024 - Now

Master of Computer Science (AI)

Bigdata Processing & DB LAB

Research Area: Multi Agent System, KG-RAG

### Konkuk University (GPA 3.31/4.5)

Undergraduate

*Seoul*

Mar. 2012 - Feb. 2019

Management of Technology and Real Estate

## CONFERENCE

### GEMMAS: Graph-based Evaluation Metrics for Multi Agent Systems

*EMNLP Industry Track 2025*

Oral Session

Nov.2025

arXiv preprint arXiv:25507.13190

### Session-based recommendation system through a session graph creation

*KSC 2024*

Oral Session

Dec.2024

## PROJECTS

### Graph-based Evaluation Metrics for Multi agent Systems

*University of Toronto, LG Toronto AI Lab*

Evaluation Frameworks for Agentic AI systems project

Jan. 2025 – Now

Funding support from Korean Government (IITP)

### Framework with Application-driven Spatio-Temporal Efficiency for Video Anomaly Detection

*University of Toronto, Lorex Technology*

Video Anomaly detection project

Jan. 2025 – Now

Funding support from Korean Government (IITP)

### Fine-tuning a Fashion Domain Image Generation Model Using Self-Instruct

*Sogang Univ*

Proposing a Text-to-Image model using Self-Instruct for data augmentation and generation

Sep. 2024 – Jan. 2025

Funding support from Sogang University

### Session-based recommendation system through a session graph creation

*KSC 2024*

Proposing a session-based recommendation model to enable effective item recommendations for anonymous users through session similarity

May. 2024 – Dec.2024

Delivered a research presentation at the 2024 KSC Annual Conference(2024.12.18~20)

### AI Robot Arm 2D bin packing system

*Posco AI.Big data program*

Using Jetson nano, Dofbot, Depth cam(real sense), ubuntu, ROS, OpenCV, YOLOv5, VMware, gstreamer

Apr. 2023 – Jul. 2023

Won the Excellence Award at the Posco AI. Bigdata Competition project

### NLP- Language Modeling Task Kaggle competition

*Posco AI.Big data program*

Train Language Model for GLUE SST-2 Dataset

Jun. 2023 – Jun. 2023

## WORK EXPERIENCE

<b>AI Teaching Assistance (Co-Instructor)</b> AI Teaching Assistance, Vibe Coding Program for Non-Technical Professionals <ul style="list-style-type: none"><li>Supported a hands-on Vibe Coding program designed for non-technical professionals at LG U+</li><li>Guided participants in AI-assisted development workflows using Google AI Studio and Cursor</li><li>Assisted in building simple databases and data pipelines for AI-enabled MVPs</li><li>Helped participants apply Python-based workflows to prototype practical business use cases</li><li>Skills: Data Engineering (Foundations), Python, Google AI Studio, Cursor</li></ul>	<i>LG U+ Magok, Seoul &amp; Fastcampus</i> Dec. 2025
<b>AI Teaching Assistance (Co-Instructor)</b> AI Teaching Assistance, Generative AI Practical Program for Career and Startup Ready Youth <ul style="list-style-type: none"><li>Co-instructed a hands-on Generative AI course focused on rapid MVP development using Vibe Coding methodologies</li><li>Guided participants in building functional MVPs with Cursor, leveraging AI-assisted coding workflows</li><li>Introduced applied AI agent concepts and Knowledge Graph-based RAG systems for practical product implementation</li><li>Skills: AI Agents, Knowledge Graph RAG, Cursor, Vibe Coding</li></ul>	<i>Gwanak District Office (관악구청) &amp; Fastcampus</i> Nov. 2025
<b>AI Mentor</b> AI Mentor, Samsung Fire & Marine Insurance AI Business Expert Program <ul style="list-style-type: none"><li>Served as a mentor in Samsung Fire &amp; Marine Insurance's AI Business Expert Program, jointly operated with FastCamus</li><li>Advised participants on Generative AI and Agentic AI for real-world insurance and business use cases</li><li>Guided applied AI projects from problem definition to model design, focusing on practical deployment, data-driven decision-making, and business impact</li></ul>	<i>Samsung Fire &amp; Marine Insurance &amp; Fastcampus</i> Sep. 2025 – Oct. 2025
<b>POSTECH Institute of Artificial Intelligence</b> POSCO AI.Big data program <ul style="list-style-type: none"><li>Learned Python, AIoT, Machine/Deep Learning, NLP, Computer Vision for 10 weeks</li><li>Win the Excellence-Award Used AI Vision Robotic Arm with ROS bin packing</li></ul>	<i>Pohang</i> Apr. 2023 - Jul. 2023
<b>Hyundai Department Store Group</b> Marketing Team, HQ Sales Planning Department <ul style="list-style-type: none"><li>Created a real-time location-based mobile application in collaboration with the IT team used Computer Vision</li><li>Analyzed the commercial districts and Re-organized online partnerships/internal promotions used Hyundai analytics tool</li><li>Produced “Green” VIP membership vouchers for the elite customers of Hyundai Department Store</li></ul>	<i>Seoul</i> Apr. 2019 - May. 2022(37 months)
<b>Robert Bosch Korea</b> Global Sales Team Intern(PowerTrain Solution) <ul style="list-style-type: none"><li>Assisted powertrain solution trade and durability test with Bosch offices in India, Italy and the HQ in Germany</li></ul>	<i>Yong-in</i> Jul. 2018 - Dec. 2018(6 months)

## TECHNICAL SKILLS

**Programming** Python  
**Deep Learning Framework** TensorFlow, Pytorch, Keras

## EXTRA EXPERIENCES(Mentor)

<b>Teaching Assistant (1 class)</b> Computer Vision	<i>Sogang Univ</i> Sep. 2024 - Now
<b>Teaching Assistant (6 classes)</b> Computer Vision, Fundamentals for TensorFlow Utilization Python Programming, Social Media data analytics Statistical-based data analysis, Blockchain	<i>Sogang Univ</i> Mar. 2024 - Jun. 2024
<b>Student Mentor</b> Alumni Career Mentor	<i>Konkuk Univ</i> Mar. 2021 - Nov. 2021
<b>Accounting Tutor</b> Peer Student Tutor(accounting)	<i>Konkuk Univ</i> Mar. 2017 - Dec. 2017
<b>Young Leader's Club</b>	<i>Seoul</i>

## CERTIFICATE

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<b>Opic(IH)</b>	Aug. 2025
<b>SQL Mathematical Functions – Coursera</b>	Dec. 2022
<b>Retail Marketing Strategy - Coursera</b>	Sep. 2021
<b>Introduction of Marketing - Coursera</b>	Aug. 2021
<b>Market Research and Consumer Behavior - Coursera</b>	Aug. 2021

## AWARDS

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Oct. 2024	<b>Finalist (Data Processing &amp; Visualization)</b>	<i>Busan Metropolitan (2024 DX Challenge)</i>
Jul. 2023	<b>Excellence-Award (Computer Vision Doffbot bin packing Project)</b>	<i>POSTECH Institute of Artificial Intelligence</i>
Jul. 2023	<b>Best Servant Award (Class Leader)</b>	<i>POSTECH Institute of Artificial Intelligence</i>
Jul. 2023	<b>Best Cooperation Award (Selected by Classmates)</b>	<i>POSTECH Institute of Artificial Intelligence</i>
Oct. 2021	<b>MVP Junior Manager Award</b>	<i>Hyundai Department Store Group</i>
Apr. 2021	<b>Best Innovation Award</b>	<i>Hyundai Department Store Group</i>
Jal. 2018	<b>Top 4: “Korea Investment &amp; Securities Hackathon.”</b>	<i>Korea investment</i>
Jan. 2018	<b>Korea Top 10: “Global student Entrepreneur Awards”</b>	<i>EO</i>
Nov. 2017	<b>Excellence-Award: “Government Job Creation Hackathon”</b>	<i>Seoul Metropolitan</i>
Nov. 2017	<b>President-Award: “Chinese Business Model Idea Hackathon”</b>	<i>Konkuk univ</i>
May. 2017	<b>President-Award: “The 4<sup>th</sup> Industrial Revolution Hackathon”</b>	<i>Konkuk univ</i>

