

# Jaeyong Ko

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**Homepage:** [jaeyongko.github.io](http://jaeyongko.github.io)  
**Google Scholar:** [Jaeyong Ko](#)

**GitHub:** [beaver-22](#)  
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**Research interests**    Large Language Models (LLMs): Mathematical & Latent Reasoning, and Evaluation in the Financial Domain

**Education**                    **Seoul National University**                    Seoul, South Korea  
MS in Industrial Engineering                    Sep 2025 – Present  
BS in Industrial Engineering                    Mar 2019 – Aug 2025

**Publications**                    **Cliff Tokens: Identifying Single-Token Failure Triggers in LLM Mathematical Reasoning**  
Jaeyong Ko, Pilsung Kang, Yukyung Lee<sup>†</sup>.  
*arXiv preprint arXiv:2606.25524*, 2026. [[project page](#)] [[arXiv](#)] [[github](#)]

**Research experience**                    **Data Science & Business Analytics Lab, SNU**                    Sep 2025 – Present  
Master's Student (Advisor: [Prof. Pilsung Kang](#))

**École Polytechnique de Montréal**                    Apr 2024 – Aug 2024  
Research Intern (Advisor: [Prof. Walid Jomaa](#))  
• Human-centric Smart Manufacturing Workcells for Industry 5.0 applications.

**Financial Engineering Lab, KAIST**                    Dec 2023 – Feb 2024  
Research Intern (Advisor: [Prof. Woo Chang Kim](#))  
• Reinforcement learning applications for goal-based wealth management.

**Projects**                    **Duo 2.0: Evaluating LLM Reliability in Long Financial Conversations |**  
*Granted by Kakaobank*                    Dec 2025 – Present  
• Quantified LLM capabilities in resolving ambiguous user queries using LLM-as-a-Judge methodologies.  
• Designed a financial life-cycle event conversation benchmark for evaluating domain-specific conversational reliability.

**Development of Advanced Integrated Monitoring Technologies for Laser Welding** | *Granted by LG Electronics* Jul 2025 – Dec 2025

- Designed and conducted experiments for a laser welding anomaly detection model utilizing time-series and image multi-modal data.

Industry experience

**EXGRAM** Jul 2022 – Oct 2022  
Product Manager Intern

- Planned app configurations and push notifications for the app, Veloo.

**SNU Startup Consulting Group (ACT)** Mar 2023 – Dec 2023  
President & Team member

- Led a student consulting group and secured four startup consulting engagements with *Moderntec*, *Designovel*, *Spring Onward*, and *Sweetspot*.
- Developed GTM strategies for *Designovel* (AI fashion-tech), *Moderntec* (EV charging infrastructure), and *Wavebridge* (cryptocurrency OTC platform).

Teaching experience

**Peer Tutoring, Seoul National University**  
Course: Production Control (406.310) Sep 2024 – Dec 2024  
Course: Human Factors Engineering (406.304) Sep 2023 – Dec 2023

Skills

**Programming and Software**

Proficient in: Python, R, MySQL, Docker, Git, vLLM, L<sup>A</sup>T<sub>E</sub>X.

**Languages**

Native Korean; Professional working proficiency in English (OPIc IH).

Military service

**Republic of Korea Army** Jan 2021 – Jul 2022  
Corporal

- Completed full-term mandatory military service, demonstrating adaptability, discipline, and leadership through various operational trainings.