Seoyong Lee

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Interests

Algorithms; Elegant ideas;

Education

Seoul National University *March 2020 – Feb 2026*
BS in Electrical and Computer Engineering
- GPA: 4.26/4.3

Korea Science Academy of KAIST *March 2017 - Feb 2020*
First high school in Korea for science-gifted students : Majored Physics
- Conferred distinction for academic excellence (GPA: 4.27/4.3); honored by the Mayor of Busan

Experience

Quantitative Trading Intern *HKG & NYC*
Jane Street *June 2025 – Aug 2025*
- Market Making; Received full time offer

Undergraduate Researcher *Seoul, Korea*
Accelerated Intelligent Systems Lab (AISys), SNU *April 2024 – Sep 2025*
- **Approximate Graph Pattern Mining :** Developed a system that can mine patterns from graphs with tens of billions of edges within few seconds
- **Approximate Nearest Neighbor Search :** Proposed a Multiple-Query optimization framework tailored to graph-based ANNS

Data Scientist *Seoul, Korea*
AB180 *Oct 2023 – Dec 2024*

Research Scientist *Seoul, Korea*
AIRS Medical *Jan 2023 – Oct 2023*

Preprint

AGIS: Fast Approximate Graph Pattern Mining with Structure-Informed Sampling.   VLDB 2026, under revision
Seoyong Lee, Jinho Lee

Rethinking Multiple-Query Optimization for Approximate Nearest Neighbor Search.   NeurIPS 2025, under review
Seoyong Lee, Taehee Kwon, Jihwan Jang, Woobeen Jo, Jinho Lee

Selected Honors & Awards

LG Optimization Grand Challenge
- 1st place (378 teams) in the Combinatorial Optimization Competition (VRP); invited to present at the 2024 Korean Institute of Industrial Engineers Fall Conference

Competitive Programming
- 2024 Samsung Collegiate Programming Cup 5th place award
- Qualified for 2021 ICPC Seoul Regional

Scholarships
- National Science Technology Scholarship (2022~) & Scholarship for Academic Excellence (2017-2020, 2021)
- ~$20K support over the period

Korean Young Physicists' Tournament (KYPT 2018)
- Grand Prize (1st place), Minister of Science and ICT Award