

HYUNGJIN KIM

+821044348519 | hyungjin.kim.prof@gmail.com | linkedin.com/in/hyungjin-kim-prof | github.com/plast7

SUMMARY

Modern C++-oriented engineer with a world-class algorithmic track record (Codeforces International Grandmaster, max 2707; ICPC Asia Pacific Championship 23rd/36th). I build reliable software under tight constraints: authored 500+ algorithm problems, and led contest infrastructure deployed across 20+ universities. Interested in high-performance C++, concurrency, and systems on Linux.

HONORS AND AWARDS

International Grandmaster (Max Rating 2707, Top 0.06%), Codeforces	Present
3rd place, UCPC (Korea Collegiate Programming Contest)	2025
23rd Place, ICPC Asia Pacific Championship	2023
36th Place, ICPC Asia Pacific Championship	2024
3 Dan (Max Rating 2471, Top 0.25%), Atcoder	Present

EXPERIENCE

Branch and Bound (Codetree) Algorithmic Education Startup	Seoul, Korea
<i>Contents Researcher (Software/Research Engineer)</i>	<i>Mar. 2022 – Jun. 2025(FT; PT during AY 2023–2024)</i>
<ul style="list-style-type: none">• Engineered and productionized an LLM-based multi-agent pipeline for algorithm problem creation<ul style="list-style-type: none">- Automated end-to-end problem generation (descriptions, test cases, validation) using LLM agents- Blind QA FPR 1.5% (3/200; 95% CI=0.5–4.3%), competitive with a 3% human-curated benchmark- Optimized task latency from ~8h to ~3h, boosting team throughput by 120%• Developed and shipped 500+ university-level algorithm problems end-to-end<ul style="list-style-type: none">- Specialized in brainteaser-style challenges integrating creative reasoning- Designed rigorous test cases and validation workflows for correctness and edge coverage• Led full-stack development of training camp admin platform<ul style="list-style-type: none">- Implemented enrollment, curriculum management, and real-time observability features- Deployed across 20+ university training camps, reducing operational overhead and improving reliability	

EDUCATION

Yonsei University	Seoul, Korea
<i>B.S. in Computer Science</i>	<i>Mar. 2020 – Feb. 2026 (Expected; with full-time startup role)</i>
<ul style="list-style-type: none">• President, Molgorithm (Algorithm Club), Yonsei University (2024)	
Kangwon Science High School	Kangwon, Korea
<i>High School Diploma</i>	<i>Mar. 2017 – Feb. 2020</i>

PROJECTS

Blobnom Software Engineer & Product Manager	2022 – Present
<ul style="list-style-type: none">• Built a gamified algorithm-learning platform with leaderboards, real-time challenges• Implemented core services with reliability and scale in mind; grew to 700+ users	
Yonsei University Programming Contest Algorithm Contest Director & Problem Setter	2023 – 2025
<ul style="list-style-type: none">• Operated 4 BOJ contests (2023/2024 YPC Open & Main; 2 personal events), attracting 800+ participants; led a 10+ member operations team• Authored 15+ problems (game theory, state modeling) and contributed to 30+ in total (Links: 2023 [Open] [Main], 2024 [Open] [Main], Personal [1] [2])	
Interpreting Diffusion Model Outputs Using PMI Capstone Project, Yonsei University	2024
<ul style="list-style-type: none">• Computed step-wise PMI on CIFAR-10 with Classifier-Free Guidance to separate inherent randomness from training defects• Around step 40, samples appear visually uniform while PMI still captures structure	

TECHNICAL SKILLS

Languages: C++, Python (Proficient) — Java, JavaScript (Familiar)
Core Strengths: Algorithms & Data Structures, Problem Solving, Competitive Programming
Developer Tools: Git, Linux
Interests: High-performance C++, Concurrency, Systems Programming