

EDUCATION

- **Ajou University** *Mar '19 - Current*
Department of Computer Engineering GPA : 4.36/4.5

EXPERIENCE

- **NetSys Lab. (Prof. Younghoon Kim)** *Mar '25 - Current*
Undergraduate Internship Suwon, Korea
 - Researching Linux networking subsystem and extended BPF (eBPF) for system-level performance and programmability
- **Theory of Natural Computation Lab. (Prof. Dajung Cho)** *Dec '23 - Dec '24*
Undergraduate Internship Suwon, Korea
 - Researched a string operation called *Abelian duplication* from a formal language theory perspective, focusing on decision problems and closure properties

PUBLICATION

- **Abelian duplications on strings and string searching algorithms**
Hyunbin Kim, Chiwook Ahn, Dajung Cho
Korea Computer Congress 2024 (KCC '24), Jeju, South Korea, June 26-28, 2024 (**Excellent Paper Award**)
- **Algorithms for Searching Maximum-Length Abelian Duplications in Strings**
Hyunbin Kim, Dajung Cho
KIISE Transactions on Computing Practices (KTCP '25)
- **Online Approaches for Abelian Duplication in Strings : Design and Applications**
Hyunbin Kim, Dajung Cho
Korea Conference on Software Engineering 2025 (KCSE '25), Pyeongchang, South Korea, Jan 20-22, 2025

RESEARCH INTERESTS

- **Compiler, Programming Language**
- **Algorithm** - graph theory, geometry, string algorithm

ACTIVITIES AND PROJECTS

- **Union of Clubs for Programming Contest (UCPC)** *Jan '25 - Sep '25*
Vice president
 - Largest algorithmic problem solving club union(30+ Universities) in Korea
 - Designed set of problems(submitted 1 problem), sponsor communication, organizing seminar
- **shake! - 2022, 2023, 2024** *Sep-Jan {'22, '23, '24}*
Director, Problem setter
 - Annual ICPC-style college union programming contest for 6 universities in Kyongin Region
 - * Participants : {Ajou, Hanyang-ERICA, Inha, Korea Aerospace, Kyunghee, Sungkyunkwan, Dankook} Univ.
 - Designed set of problems
 - * 2022 : Submitted 2 problems (Problem B, C)
 - * 2023 : Submitted 2 problems (Problem A, C)
 - * 2024 : Submitted 3 problems (Problem B, F, J)

- **Ajou Programming Contest (APC) - 2022, 2023 ,2024 ,2025**

Mar - May {'22, '23, '24, '25}

Director, Problem setter

- Annual ICPC-style programming contest held in Ajou Univ.
- Designed set of problems
 - * 2022 : Submitted 3 problems / 2023 : Submitted 7 problems / 2024 : Submitted 4 problems / 2025 : Submitted 2 problems

- **Analyze 'N Solve It (ANSI)**

Jan '23 - Current

Member, Vice president

- Algorithmic problem solving club in Ajou University
- Ran algorithmic problem solving study group – {Intermediate, Advanced} Algorithm study group
- Directed several programming contests

FURTHER SKILLS AND QUALIFICATIONS

- **Software Skills** : C/C++, L^AT_EX
- **Language** : Korean(Native), English(Upper intermediate)

ACHIEVEMENTS AND HONORS

* ICPC : International Collegiate Programming Contest

- **Excellence Award**, '24 Fall, Ajou Softcon – Research section *Dec '24*
- **Honor**, 2024 ICPC Jakarta Regional *Dec '24*
- **Honor**, 2024 ICPC Seoul Regional *Nov '24*
- **Excellent Paper Award**, Korea Computer Congress 2024 (KCC '24) *Jul '24*
- **34th place**, 2023 ICPC Seoul Regional *Nov '23*
- **59th place**, 2022 ICPC Seoul Regional *Nov '22*
- **Finalist**, 2023 Samsung Collegiate Programming Cup ('23 SCPC) *Aug '23*
- **Academic Scholarship (Daewoo Scholarship – College Top Rank)**, Ajou University *Jul '25*
- **Academic Scholarship (Yulgok Scholarship)**, Ajou University *Dec '24*
- **Academic Scholarship (Yulgok Scholarship)**, Ajou University *Dec '23*
- **Academic Scholarship (Yulgok Scholarship)**, Ajou University *Dec '22*
- **Academic Scholarship (Yulgok Scholarship)**, Ajou University *Jul '20*