

Sungmoon Jung

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SUMMARY

I am a student passionate about problem-solving and AI research.

My ultimate goal is to become an AI hardware optimization engineer, applying technology to benefit society.

EDUCATION

- 03/2020 - 08/2024
- **B.S. in Information Technology and Engineering**
Jeonbuk National University
 - GPA 4.03/4.50 (Major GPA 4.17/4.50)



INTERNSHIPS

- 10/2021 - 06/2023
- **Undergraduate Research Intern**
Jeonbuk National University
 - Research on computer graphics
 - Performed image analysis and algorithm optimization projects

WORK EXPERIENCE





- 06/2024 - Present
- **Coding Test Instructor**
Inflearn
 - Launched the **Python Coding Test A to Z Course**. ([link](#))
- 03/2022 - 09/2022
- **Coding Instructor**
Elice
 - Instructed students on algorithms and programming languages (C++/Python).



AWARDS & HONORS

-  **International Collegiate Programming Contest (ICPC)**
 - **Qualified for ICPC Asia Pacific Championship 2024**, Hanoi, Vietnam
 - **18th Place**, ICPC Asia Jakarta Regional, 2023
 - **31st Place**, ICPC Asia Seoul Regional, 2023
 - **54th Place**, ICPC Asia Seoul Regional, 2022
 - **51st Place**, ICPC Asia Seoul Regional, 2021
-  **AI Competition**
 - **2nd Prize**, Big Data Innovation Convergence University AI Competition, 2022 ([link](#))

TEACHING

- C Programming Mentoring**  11/2023
Mentor
 - Program for Freshman Computer Science Undergraduates
 - Taught Basic Concepts of C Programming (Functions, Arrays, Strings, Pointers)
- Data Structures and Algorithms Tutoring**  10/2023 - 12/2023
Tutor
 - Program for Computer Science Undergraduates (Sophomores and Juniors)
 - Taught Concepts of Data Structures and Algorithms and Problem Solving
- High School Algorithm Camp (by goorm)**  02/2023
Mentor and Problem Reviewer
 - Algorithm Problem-Solving Education for High School Students
 - Algorithm Problem Explanation and Review
- Teaching Assistant for an Undergraduate Course**  03/2022 - 06/2022
Teaching Assistant
 - C++ for Object-Oriented Programming, Course in Department of Information Technology for Sophomores
 - Marked midterm and final exams, supervised exams

PROJECTS

Defect detection in agricultural product X-ray images

📅 03/2023 - 06/2023

🔗 https://github.com/tjdans6342/Defect_Detection_Project

- This project is about transforming X-ray images of agricultural products to make defects more visible.
- This project algorithm was implemented using only OpenCV and NumPy libraries, without using any AI technologies.
- **Python / OpenCV / NumPy / Matplotlib / Numba**

Gaussian Elimination Parallelization using CUDA Programming

📅 12/2022

🔗 <https://github.com/tjdans6342/CUDA-Programming>

- This project is implemented using CUDA programming (parallel processing) to perform Gaussian Elimination.
- In theory, applying CUDA programming (parallel processing) to Gaussian elimination can reduce its complexity from $O(n^3)$ to $O(n)$.
- **C++ / Cuda**

Unix-Based Locker Management System

📅 12/2022

🔗 <https://github.com/tjdans6342/Unix-Project>

- This project implements a locker system using client-server communication.
- It was implemented using C language and Unix socket communication.
- **C / Unix**

IT-related Latest External Activities/Contest Notification App

📅 11/2022 - 12/2022

🔗 <https://github.com/tjdans6342/DataBase-Project>

- This project provides a collection of the latest IT-related external activities and contests in the form of an app.
- It was developed by building a database through web crawling and creating the app using Unity.
- **Python / Selenium / SQLite / Unity**

Food and Restaurant Recommendation App

📅 04/2022 - 06/2022

🔗 <https://github.com/tjdans6342/Android-Studio-Project>

- This project recommends restaurants near Jeonbuk National University to users in the form of an app.
- It was developed by collecting data through web crawling and creating the app using Android Studio.
- **Python / Selenium / Java / Android Studio**

SKILLS

- **Programming Language:** C/C++, Python
- **Tools:** TensorFlow, OpenCV, NumPy, Pandas, Selenium
- **Other Skills:** Git/GitHub, LaTeX

LANGUAGES

Korean

Native

English

Intermediate

CERTIFICATION

Engineer Information Processing

2023.11.15 | HDRK

Craftsman Information Processing

2023.09.20 | HDRK