Sungmoon Jung

@ sunmoon1741@gmail.com 🔗 **Portfolio** 🔗 **Tech Blog**

SUMMARY

I am a student passionate about problem-solving and AI research.
My ultimate goal is to become a Machine Learning 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

02/2022 - 06/2023
Jeonbuk National University
● Undergraduate Research Intern
  - 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