Hwang-Geun Yi

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EDUCATION

B.S. of Computer Science, Sungkyunkwan University (Major GPA: 4.13 / 4.5, Total GPA: 3.86 / 4.5)

· **Honors:** Scholarship for admission

· **LeaderShip**: President of the department soccer club

· **Coursework**: OS, Software Engineerign,Computer Network, PL, Database, Algorithms, Automata, Data Structure, Open Source , Automata, System Program , JAVA, C, C++ , Computer Architecture, Patent and Start - up, …

· **Skills :** Linux, Virtualization(VM/Container), C,C++, Java, SQL, Kotlin, Docker, Git, Mobile App Developlment(Android)

WORK & LEADERSHIP EXPERIENCE

MeritzFire - Mobile Developer | *IT Development Team @ Solution Unit*   **2024 - 2025**

· Sales support APP mobile development and management

FADU Technologies - SSD IP Engineer | *SoC Team [Offer Accepted]*   **2024**

· Fabless semiconductor company developing Flash SSD controllers and storage solutions

Samsung Electronics - Software Intern | *Solution PE Team @ Samsung Electronics DS*   **2023**

Developed and optimized E-Storage performance benchmark tools for Apple devices

· Built Mac OS & iOS testing frameworks utilizing C/C++ and Swift, developing filesystem test modules for

  both Sequential and Random Read/Write operations with advanced I/O controls (O_Sync, O_Direct, F_Nocache)

· Designed **Aging test system** to observe E-Storage **Wearleveling** characteristic during long-duration testing.

· Implemented **chunk-based data pattern verification** that detects system testing failures and enables

  precise **test repair** from the point of interruption, significantly improving test reliability

Posco – International | *Industry – Academic Cooperation Project*   **2020**

· Developed an **automatic collection** of economic/financial market information by country and item

· Made a crawling program and web page to **increase work efficiency** for Posco-International staff

· Reduced crawling time from **55s to 10s** by applying **multiprocessing** and **multithreading**

PROJECT EXPERIENCE

Enhanced XV6   *OS Project*   **2021**

· **A simple Unix-like operating system designed for educational purposes at MIT.**

· Added a Priority field to the existing Process Structure and implemented system calls for priority adjustment

· Implemented a **Completely Fair Scheduler (CFS)** using vruntime to ensure fair CPU allocation.

· Enhanced memory mapping and **memory management** by implementing **MMAP**, Munmap, and a Page Fault handler.

· Implemented **page replacement** using an LRU list & the Clock algorithm to manage **swap-in/out** when memory is low.

Maximize Open Source Program Branch Coverage using limited TC   *Software Engineering*   **2024**

· Developed 30 test cases to maximize branch coverage of the open-source C program 'find' command

· Achieved comprehensive code analysis and test case optimization using **gcov** tool

· Ranked 3rd among 100 students through persistent effort and dedication to maximizing performance metrics