



YONGSEONG PARK

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"Be the change that you want to see in the world."

Education

Chungbuk National University

B.S. IN SOFTWARE ENGINEERING, INTERDISCIPLINARY MAJOR IN BIG DATA CONVERGENCE

- Total GPA of 4.08 / 4.5, Major GPA of 4.13 / 4.5 (Credits taken: 147/140)

Cheongju, S.Korea

Mar. 2020 – Present

Research Interests

- Artificial Intelligence** Reinforcement Learning, Trustworthy AI, XAI
- Computer Security** AI-based System Security
- Embedded Systems** Optimize embedded systems for a lightweight security model

Project Experience

Finflow : Managing equity portfolio risk with reinforcement learning

TEAM MEMBER & REINFORCEMENT LEARNING ENGINEER

- Designed a DRL-based financial portfolio management system using PPO and actor-critic architecture.
- Integrated explainability with Integrated Gradients to analyze action importance over portfolio states.
- Performed backtesting, Sharpe ratio analysis, and baseline comparison with traditional strategies.

Cheongju, S.Korea

May 2025 – Present

OJP : SAT Practice test question suggested sites

TEAM MEMBER & FRONT-END ENGINEER

- Built a site to help students navigate math questions on the SAT in a more optimized way.
- Participated in designing UI/UX flows and implementing core frontend logic.

Seoul, S.Korea

January 2025 – Present

Sonus : Identify and extract instruments from orchestral recordings

TEAM LEADER & DEEP LEARNING ENGINEER

- Developed an AI-based system for extracting individual orchestra instrument sounds to support solo practice and music education.
- Applied MFCC preprocessing, data augmentation, and CNN-based classification, with post-processing including dynamic range compression and quantization for practical usage.
- Designed a modular framework combining feature-based and note-level instrument identification, with future integration plans for multi-pitch estimation (MPE) models.

Cheongju, S.Korea

September 2024 – December 2024

Honors & Awards

AWARDS

- 2025 **Gold Award**, International Collegiate Challenge For AI-Assisted Society | Emoseum
- 2024 **Excellence Award**, English Language Arts Presentations for Curriculum-Based Projects

ICCAS, Austria

Chungbuk Univ.

HONORS

- 2025 **Semester High Honors**, Awarded to students with high achievements throughout the semester
- 2024 **English Excellence Scholarship**, Awarded to students for excellence in "OPIC Winter Camp" program
- 2024 **Semester High Honors**, Awarded to students with high achievements throughout the semester
- 2021 **Semester High Honors**, Awarded to students with high achievements throughout the semester
- 2020 **Semester High Honors**, Awarded to students with high achievements throughout the semester

Chungbuk Univ.

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CERTIFICATES

- 2025 **Certificate of Completion**, EKC 2025 Science School Session

EKC, Austria