HONGBEEN PARK

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EDUCATION

Master of Computer Science and Engineering — Sep. 2023 – Current
Korea University — Seoul, South Korea

Bachelor of Computer Science and Engineering — Mar. 2019 – Feb 2023
Korea University — Seoul, South Korea

High School Diploma — Mar. 2016 – Feb 2019
Seoul Science High School — Seoul, South Korea

WORK EXPERIENCE

Data Operations Intern — January 2024 – April 2024
Naver Cloud Corp. — Gyeonggi-do, South Korea
- Created datasets for Table-VQA and non-image QA tasks.
- Explored preprocessing techniques and designed prompt formulations for dataset development.

Vision & AI Lab Intern — April 2023 – August 2023
Korea University — Seoul, South Korea
- Conducted research on 3D object detection for autonomous driving using temporal modeling.
- Aligned BEV (Bird's Eye View) perspectives and trajectory prediction models with map integration.

Visual Intelligence Group Intern — September 2022 – December 2022
Korea Institute of Science and Technology (KIST) — Seoul, South Korea
- Developed multi-view human detection and re-identification algorithms.
- Designed and implemented a camera calibration pipeline for enhanced identification accuracy.

Mentee — April 2021 – December 2021
SW Maestro Program — Seoul, South Korea
- Built smoking detection AI using TensorRT on Jetson Nano.
- Led the development of a hate speech filtering model deployed on YouTube.

Programming Challenge Management — November 2019, November 2020
Korea University Programming Challenge (KCPC) — Seoul, South Korea
- Organized and prepared programming challenges for the 2019 KCPC contest.
- Managed server operations and participant coordination.

Algorithm Solving Club Instructor — September 2019 – December 2020
Korea University — Seoul, South Korea
- Taught an advanced algorithm course and created detailed solutions to problem sets.

PUBLICATIONS

Peer-Reviewed Papers

- E. Kim, D. Shanker, V. Bharadhwaj, **Hongbeen Park**, Jinkyu Kim, H. Torfah, D. Fremont, S. Seshia, "Querying Labelled Time Series Data with Scenario Programs", NASA Formal Methods 2025

- **Hongbeen Park**, Minjeong Park, Giljoo Nam, Jinkyu Kim, "LRSLAM: Low-rank Representation of Signed Distance Fields in Dense Visual SLAM System", European Conference on Computer Vision (ECCV) 2024

- Seokha Moon, Hyun Woo, **Hongbeen Park**, Haeji Jung, Reza Mahjourian, Hyung-gun Chi, Hyerin Lim, Sangpil Kim, Jinkyu Kim, "VisionTrap: Vision-Augmented Trajectory Prediction Guided by Textual Descriptions", European Conference on Computer Vision (ECCV) 2024

- NAVER Cloud Team, "HyperCLOVA X Technical Report", Arxiv 2024

- Seokha Moon, **Hongbeen Park**, Jaekoo Lee, Jinkyu Kim, "Learning Temporal Cues by Predicting Objects Move for Multi-Camera 3D Object Detection", International Conference on Robotics and Automation (ICRA) 2024

LEADERSHIP EXPERIENCE AND ACTIVITES

Development and AI Club (KOSMOS) President	March 2020 - August 2022
Korea University College of Information	
Student Council President	May 2019 - June 2020
Korea University College of Information	
Algorithm Summer Contest Management	March 2019 - December 2019
Korea University Algorithm Problem Solving Club	

HONORS AND AWARDS

(2nd place) 2021 Korea University Programing Challenge (KCPC)	November 2021
(3rd place) 2021 SW Maestro Hackathon	May 2021
(2nd place) 2020 Intercollegiate Competition Algorithm Camp Contest	August 2020
(full-tuition) WORK-STUDY SCHOLARSHIPS	March 2019 - June 2020
(2nd place) Korea Olympiad in Informatics (KOI)	June 2017
(3nd place) Korea Olympiad in Informatics (KOI)	June 2016

TEACHING EXPERIENCE

Teaching Assistant, Algorithm	September 2024 - December 2024
Korea University	Seoul, Korea
Teaching Assistant, Data Science	March 2024 - June 2024
Korea University	Seoul, Korea

SKILLS

Languages: English (Intermediate), Korean (Native)
Programming: Python, C/C++, Java, Shell script
Document Creation: LaTex, Markdown