

Ryan Donghan Kwon

Curriculum Vitae

Hana Academy Seoul
535 Yeonseo-ro,
Eunpyeong-gu, Seoul
ryankwon@ieee.org

Education

Hana Academy Seoul <i>Advisor: Hyungsik Jung</i>	2022/03 - present
Sanggye Middle School <i>Advisor: Sunmi Kim</i>	2019/03 - 2022/02

Work Experience

Research Associate, Sungkyunkwan University, School of Medicine	2023/05 - present
Chief Executive Officer, Algorix LLC	2022/06 - present
Chief Technology Officer, The Coala Inc.	2021/06 - present
Post Production Manager, Studio AO	2020/11 - 2021/07

Membership

Student Member, Institute of Electrical and Electronics Engineers	2023 - present
Contributing Member, Python Software Foundation	2022 - present
Student Member, Korean Institute of Information Scientists and Engineers	2022 - present

Publications

R. D. Kwon, D. Lim, Y. Lee, and S. W. Lee, ‘**Deep Residual CNN for Multi-Class Chest Infection Diagnosis**’, arXiv [eess.IV]. 2023.

Y. Cho et al., ‘**Evaluating the Efficacy of Interactive Language Therapy Based on LLM for High-Functioning Autistic Adolescent Psychological Counseling**’, arXiv [cs.HC]. 2023.

R. D. Kwon, D. Lim, and J. Park, ‘**Adaptive Partition Sort: Developing an Efficient Sorting Algorithm by Combining the Strengths of Quick Sort and Merge Sort**’, in Proceedings of the KIISE Korea Computer Congress, 2023, pp. 2019–2021.

R. D. Kwon, J. S. Shin, and D. Lim, ‘**Lightweight Syntax Structure for Describing Data to Transfer over Internet of Things (IoT) Devices**’, Proceedings of the 25th Korea Conference on Software Engineering, pp. 193–197, 2023.

R. D. Kwon, ‘**Proposal of Lexicographically Sortable Unique Identifier to replace Universal Unique Identifier (UUID) in Distributed Computing System**’, in Proceedings of the KIISE Korea Software Congress, 2022, pp. 1886–1888.

J. Lee, J. S. Shin, J. H. Gwak, H. N. Park, and R. D. Kwon, ‘**Implementation of CanSat for Information Gathering To Support Artillery Fire**’, in Proceedings of The Korean Society for Aeronautical and Space Sciences Fall Conference, 2022, pp. 703–704.

———— Honors and Awards

Top Student Researcher (1st Award), The Korean Academy of Science and Technology	2023/11
3rd Award, Software Future & Dream Challenge 2023, Korea Software Industry Association	2023/11
Special Award, Youth Engineering Leader Autonomous Car Contest 2023, Hyundai Mobis	2023/11
Bronze Medal (3rd Award), The 13th KSME Student Creative Design Competition	2023/10
Mentor and Judge, SKYCC: Pairing Hackathon, Seoul National University SCSC	2023/05
Mentee, Science Mentorship Program, The Korean Academy of Science and Technology	2023/04
Hansung Nobel Young·Gifted Scholars, Hanseong Sonjaehan Scholarship Foundation	2023/03
3rd Award, Youth Engineering Leader Autonomous Car Contest 2022, Hyundai Mobis	2023/02
Advanced Invention Course, Seoul Science Park, Seoul Metropolitan Office of Education	2022/09

———— Projects

Exam Venue Inquiry System Advancement, Hana Academy Seoul	2023/04
Face Recognition Attendance System, Club Assembly, Hana Academy Seoul	2022/11
Map of the Modern World Quiz, Georgetown University	2022/09
IoT Water Level Reporting System, Club Serendipity, Hana Academy Seoul	2022/08
Exam Venue Inquiry System, Hana Academy Seoul	2022/07
Art Centre Reservation System, Hana Academy Seoul	2022/06
IoT Factory Manufacturing Execution System, Samsung Heavy Industries	2021/05

———— Extracurricular Activities

Invited Speaker, Lounge 23, IMPACT	2023/12
Sweden-Korea Nobel Memorial Program 2023	2023/11
Nobel Prize Dialogue Seoul 2023	2023/09
Junction Asia 2023	2023/08
10th Hansung Nobel Young · Gifted Scholars Summer Camp	2023/08
KAST Hanlim Future Science Camp 2023	2023/08

KAIST Creative Global Leader Camp	2023/08
The State University of New York Korea Experience Day	2023/05
ML + QC: Data & Model, Classical Machine Learning, Quantum Computing and Quantum ML	2023/04
BespinGlobal OpsNow360 Conference: Cloud Management as a Service	2023/02
JAX/Flax: High-performance deep learning framework pushed by Google and HuggingFace	2023/02
Stripe Product Masterclass for SaaS & Marketplace	2023/01
Invited Speaker, Impact Lounge, IMPACT	2022/12
Python Korea End of Year Party	2022/12
How Startups go global with Stripe	2022/11
AWS Industry Week 2022	2022/11
(Project) Braille Motion Graphics, REA:TIC Industries	2022/08
(Project) Product Recognition Service for Visually Impaired	2022/07
The Junior Conference (SojuCon): Shot 1	2022/07
Woowa Brothers GoodJob Conference	2022/04

--- **References**

Hyungsik Jung, Hana Academy Seoul, Department of Science and Informatics.

Seung Won Lee, Sungkyunkwan University, School of Medicine.