

# Changhyeok Kim

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## EDUCATION

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Sungkyunkwan University

Bachelor Student, School of Chemical Engineering

Mar. 2020 – Present

Suwon, Korea

## RESEARCH INTERESTS

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Artificial Intelligence, Semiconductor

## RESEARCH EXPERIENCES

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- **Intern** Jul. 2025 – Jul. 2025  
KAILOS LAB - R&D Department, Seoul, Korea
  - Developed an AI model to predict the specific resistance of next-generation semiconductor interconnect materials using MLflow.
  - Systematically managed the entire MLOps process, from model development to deployment.
- **Research Student** Dec. 2024 – Jun. 2025  
Applied Semiconductor devices for Nanophysics Laboratory (Professor, Dae Joon Kang), Korea
  - Vanadium Dioxide based ECRAM (Electro-Chemical Random Access Memory)
- **Research Student** Sep. 2024 – Dec. 2024  
Advanced Battery Laboratory (Professor, Ki Jae Kim), Korea
  - Improvement of secondary battery performance and life by introducing new binders
- **Research Student** Jun. 2024 – Aug. 2024  
Next Generation Photo-electronics Lab (Professor, Nam-Gyu Park), Korea
  - Changes in solar cell efficiency according to type and concentration of post-treatment materials

## AWARDS AND HONORS

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- **Excellent Internship Award**, 2025 Internship Presentation Competition Sep. 2025
- **Dean's List Award** May 2025
- **Academic Excellence Scholarship (Excellence)** Mar. 2025
- **Academic Excellence Scholarship**, SKKU Semiconductor-Specialized Univ. Project Group Feb. 2025
- **1st Batch IPESK Next-Generation Engineer**, Institute for Promotion of Engineering and Science of Korea, IPESK Nov. 2024

## PROJECTS

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- **2024 Semiconductor Solve-a-thon Competition**, KIAT, Korea      Nov. 2024 – Dec. 2024
  - Analyzing the grain boundary effect of Poly Si in 3D NAND and 3D DRAM, Suggesting improvement plan

## EXTRACURRICULAR ACTIVITIES

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- **The 15th Social Leader University Student Mentoring**, KOSAF      Apr. 2024 – Nov. 2024

## SKILLS AND TECHNIQUES

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- **Software Tools:** Microsoft's Office (Word, Excel, PowerPoint), Python (Machine Learning: ANN, Random Forest), MATLAB
- **Certifications:** ADsP (Advanced Data Analytics Semi-Professional), Computer Application Ability Level 2, Word Processor