

# Changhyeok Kim

sjplin@g.skku.edu · +82) 010-2704-0283 · Suwon, Korea

## 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