

# Kyu Yeon “James” Lee

MS student at Georgia Institute of Technology. Experienced Computer Science professional with 4+ years specializing in GPU drivers, system profiling, and software/hardware co-optimization. Adept at GPU architectural optimization and production-level fault screening.

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## Education

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- **Georgia Institute of Technology (Atlanta, GA, USA), 2024 ~ present**
  - MS in Computer Science, College of Computing (Specialization: Machine Learning)
- **Sogang University (Seoul, South Korea), 2014 ~ 2020, 92.6/100 (Magna Cum Laude)**
  - BS in Computer Science Engineering
  - BS in Mathematics

## Work Experience

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- **Engineer, Samsung Electronics (S.LSI Business) Hwaseong, South Korea: February 2024 ~ July 2024**
  - Vulkan Driver Development
    - Production issue analysis
    - Performance feature enhancement
- **Engineer, Samsung Austin Semiconductor (SARC-ACL) San Jose, CA: November 2022 ~ January 2024**
  - Graphics Performance Optimization
    - Vulkan workload analysis
    - Vulkan render pass optimization
    - Workload-aware power optimization
  - Driver Architecture
    - Profiling interface design
    - Sandbox infrastructure for GPU driver development
  - Marketing Activities
    - Booth duty for Xclipse 940 GPU launch event at S.LSI Tech Day 2023
    - Booth duty Xclipse 940 GPU demonstration at CES 2024
- **Engineer, Samsung Electronics (S.LSI Business) Hwaseong, South Korea: March 2020 ~ October 2022**
  - SDK/DevTools for Samsung Xclipse GPUs
    - GPU profiler/debugger support
    - Internal development tools
  - GPU Software
    - GLES driver extension development for ANGLE
    - Silicon screening infrastructure, testbed development
    - Production issue analysis
    - Graphics performance analysis

## Knowledge

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- **Programming Languages/APIs**
  - C++, Python
  - Vulkan, OpenGL ES, OpenCL, CUDA
  - Pytorch
- **Production Experience**
  - Exynos 2400, Xclipse 940 (Based on AMD RDNA 3)
  - Exynos 2200, Xclipse 920 (Based on AMD RDNA 2)
  - Exynos 2100, Mali G-78 MP14 (Based on ARM Valhal)