

Kyu Yeon "James" Lee

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Education

MS, Computer Science

Georgia Institute of Technology (3.75/4)

Expected August 2025

Atlanta, GA USA

- **Coursework:** GPU HW&SW, Deep Learning, Natural Language, Computer Vision, Machine Learning

BS with Honors, Computer Science and Engineering/Mathematics

Sogang University

February 2020

Seoul, Republic of Korea

Summary

Software Engineer specializing in GPU development. 4+ years of experience in GPU user mode drivers and GPU architecture. Adept in languages and frameworks such as C/C++, Python, Vulkan, CUDA, Pytorch and tools like Systrace, Perfetto, Nsight, Renderdoc, Android GPU Inspector, etc.

Professional Experience

Georgia Institute of Technology

Graduate Research Assistant, College of Computing

January 2025 – Present

Atlanta, GA USA

- Developed power monitor feature for CRNCH Rogues Gallery, testbed of next-generation hardware.

Samsung Electronics

Engineer, S.LSI Business

March 2020 – July 2024

Hwaseong, Republic of Korea | 1/27/2024 – 7/31/2024

- Developed Vulkan drivers including fixes for graphics rendering/performance issues

Engineer, SARC-ACL GPU Software

San Jose, CA USA | 1/27/2023 – 1/27/2024

- Enhanced Vulkan graphics performance by enabling new hardware features of Xclipse GPUs
- Designed/Implemented workload-aware DVFS policies for power optimization

Engineer, S.LSI Business

Hwaseong, Republic of Korea | 3/16/2020 – 1/26/2023

- Developed GLES (ANGLE) features/extensions for Xclipse GPUs
- SDK/DevTools for Xclipse GPUs, related to performance counters
- ARM Mali drivers

Projects

Sorting with GPUs: Implement bitonic sorting and tune performance for H100 GPUs. Achieved 100x speedup on GPUs compared to CPUs. [\[link\]](#)