

Kyu Yeon "James" Lee

 kyuyeon.lee@gatech.edu |  [LinkedIn](#)

Education

MS, Computer Science Present

Georgia Institute of Technology

Present

Atlanta, GA USA

BS with Honors, Computer Science and Engineering, Mathematics

Sogang University

Spring 2020

Seoul, Republic of Korea

Experience

Engineer

Samsung Electronics

February 2024 – July 2024

Hwaseong, Republic of Korea

- Developed Vulkan drivers, addressing rendering artifacts and gaming performance issues.
- Designed and implemented workload-aware optimizations in AMD PAL user-mode drivers.

Engineer (Samsung Talent Exchange Program)

Samsung SARC/ACL

November 2022 – January 2024

San Jose, CA USA

- Optimized GPU performance through workload and job dependency analysis.
- Enhanced Vulkan render passes with architectural support for memory bandwidth reduction.
- Designed workload-aware DVFS policies for power optimization and integrated RDNA3 features.
- Improved driver architecture by designing a profiling interface and implementing sandbox infrastructure.

Engineer

Samsung Electronics

March 2020 – October 2022

Hwaseong, Republic of Korea

- Developed GPU profiler/debugger, focusing on performance counters and daemon enhancements.
- Developed production software including GLES extensions for ANGLE and silicon screening tools.
- Optimized mobile gaming performance using DVFS and cache policy tuning
- Resolved production issues related to graphics and compute performance.

Skills

Programming Languages/APIs: C, C++, Python, Vulkan, OpenGL ES, OpenCL, CUDA, Pytorch, Triton

Tools: NSight, Android GPU Debugger, RenderDoc, Perfetto, Systrace

Presentations

CES 2024: Represented Exynos 2400, delivered technical presentations to customers and VIP visitors.

S.LSI Tech Day 2023: Presented Exynos 2400 at the company booth for industry professionals and VIPs.