YONGFENG QIU

PERSONAL DETAILS

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EDUCATION

M.S. Graphics & Visualization Track `2021-2023`
University of Utah   Secured 3.76 GPA.
B.S. Graphics & Image processing Track `2017-2021`
Harbin University of Science and Technology   Secured 85.5 percentage.

SKILLS

Programming: C/C++, PYTHON, MATLAB, MYSQL, LUA,HTML,JAVASCRIPT
Computer Graphics: Rasterization，Ray tracing, Real-time Rendering, Physically-based Rendering, Digital image processing
Operating System: Master a variety of server models, synchronization, and communication between threads/processes, and the dynamic library, static library, and lock mechanism.

EXPERIENCE

VirtAI Tech `Feb. - May. (2021)`
Cloud rendering department, System Development Engineer
Rendering optimization for Linux Operating system. Convert DX11-based renderer to Vulkan-based.

University of Utah `Jan. - May. (2022)`
Computer Network Teaching Assistant
Assists the professor with creating and delivering learning materials in a course.

PROJECTS

Path Tracing OpenGL [Project] `Aug. 2022`
⊙ Use the BVH data structure to manage the scene, and pass it to the GPU in the form of texture through OpenGL API
⊙ Tiled-based Rendering

Light System with OpenGL [Project] `Jun. 2022`
⊙ theory light
⊙ Image based light
⊙ Area light
⊙ Volumetric light

PBR with OpenGL [Project] `Mar. 2022`
⊙ Image based light and Picture Textures, Procedural Texture (Noise)
⊙ Physics Based Camera: Shutter speed, aperture, sensitivity and Disney principle PBR (10 parameters)

Graphic system based on harmony search algorithm and CNN `Sep. 2019`
⊙ Basic 2D 3D graphics drawing and modification operations
⊙ Using HS algorithm to impose geometric constraints on graphics
⊙ using CNN to retrieval (primary rough retrieval, secondary accurate retrieval)

Cloud system based on TCP / IP protocol `Feb. 2019`
⊙ Registration, login, friends list, friends status, add and delete friends, user profile change, single chat
⊙ Cloud disk, including file second transmission, breakpoint continuation, download, sharing, extraction, deletion, log.