

PERSONAL DETAILS

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EDUCATION

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| 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[U+FF0C] 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.

EXPERIENCES

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| 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

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| 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. | |