WEIJIE ZHOU

marston.w.zhou@gmail.com

EDUCATION

University of Waterloo

September 2021 - Present

Ph.D. in Computer Science

Supervised by Prof. Toshiya Hachisuka

The University of Tokyo

April 2019 - March 2021

Master in Information, Science and Technology

Supervised by Prof. Toshiya Hachisuka

Shanghai Jiao Tong University

September 2013 - June 2017

Bachelor in Software Engineering

WORK EXPERIENCE

HUAWEI Tokyo Research Center - Research Internship

August 2019 - June 2021

GPU Path Tracing Renderer Project, C++, Python, PyTorch, OpenCL

- · developed an interactive GPU-based mobile path tracing renderer and optimized the performance, achieving a performance speedup 2x~3x compared to the legacy renderer.
- · utilized a U-net-like autoencoder with temporal information to implement an AI-based denoiser to denoise the 1spp path tracing image and ported the network to mobile NPU, achieving state-of-the-art performance on mobile with interactive fps..

HUAWEI Technologies CO. LTD - Test Engineer

August 2017 - September 2018

HUAWEI VR2 Project, C++, C#, Python, Unity, OpenGL ES

- · optimized the VR2 SDK performance by enabling an OpenGL ES extension on Huawei VR2, reducing the draw calls of VR rendering to a half.
- · developed an automation test framework, enabling the functional test and stability test to execute automatically.
- · developed SDK test tools, reducing the test time for SDK to less than 30 minutes.

HUAWEI Technologies CO. LTD - Test Engineer Internship

July 2016 - June 2017

HUAWEI Mate9 Project and HUAWEI VR1 Project, C++, C#, Python, Unity

- · developed a Vibration Module based automation test tool in the hardware abstraction level (HAL) for Mate9.
- · developed a Unity-based VR1 automation test tool by mocking the sensor data (quaternion and position).

TECHNICAL SKILLS

Programming Languages: C++, C#, Java, Python

Tools: Unity, OpenGL ES, OpenCL, OpenCV, WebGL, PyTorch, LATEX

LANGUAGES SKILLS

Chinese: native

English: business (TOFEL iBT 93/120) Japanese: intermediate (JLPT N1 103/180)