Xiangyue Zheng

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Education

The George Washington University (Washington, D.C.) **Expected May 2019**
School of Engineering & Applied Science
Master of Science in Computer Science - GPA 3.85(top 15%)
Indented concentration: Computer Graphics, Web Technology

Sun Yat-Sen University (Guangzhou, China) **June 2016**
School of Data & Computer Science
Bachelor of Science in Computer Science - GPA 3.5

Skills

Languages: C/C++, PHP, Python, JavaScript, Matlab, HTML/CSS
Tools: Mysql, Git, Redis, thrift, HDFS, Kafka, OpenGL, NPM, Docker, NodeJs, CMake, VUE, Django, CodeIgniter
Knowledge: Algorithm, Operating System, Computer Network, Computer Graphics, Machine Learning, Data Compression, Web Technique

Projects

Graphics Renderer (Graphics, Animation, C++) **Feb 2018 - Present**

- Developed a basic renderer using perspective transform, Z-buffer, Scan-line algorithms. Implemented illumination models, texture mapping and depth of field effect
- Designed an animation tool. Implemented spline, Euler angle, quaternion, hierarchy object

Real Time Face Slimming Filter **Present**

(Image processing, Machine Learning, Python)

- Avoided "sudden mutation problem" using image morphing, triangle interpolation, CNN based face detection

Image Compression Component (Algorithm, Math) **Jan 2017 - Apr 2017**

- Designed an image compression algorithm for self-organized network terminals based on discrete cosine transform
- Achieved compression ratio of 10 - 15, making it possible for self-organized network application to transfer images in good quality

Web Apps (PHP, Python, Javascript, HTML) **2016 - 2018**

- Technique People, a social media platform for technology transferring
- Conference Booking, an internal meeting room reservation system
- Lypton Doc, a rich text editor
- Vocabulary Memory, an English learning tool

Experience

ByteDance Software Engineering Intern **May 2018 - Oct 2018**

- Efficiency increased by over 300% for "content audit assessment" by building an automated, standardized platform which connects HDFS infrastructure and audit platform. Completed 25% ahead of schedule