

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 Sun University (Guangzhou, China)

June 2016

School of Data & Computer Science

Bachelor of Science in Computer Science - GPA 3.5

Skills

Language: 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, C++) **Feb 2018 - Present**

- Implemented perspective transform, Z-buffer, Scan-line algorithms
- Implemented illumination models, texture mapping and depth of field effect
- <https://github.com/Zhengxiangyue/renderer>

3D Key Framing Animation (Graphics, Animation, C++)

Present

- Implemented using spline interpolation, with OpenGL
- <https://github.com/Zhengxiangyue/animation>

Face Shrinking Filter (Image processing, Python)

Present

- Avoided sudden mutation from the original face to the beautified face, using image morphing, triangle interpolation

Image Compression Component (Algorithm)

Jan 2017 - Apr 2017

- Designed an image compression algorithm for self-organized network terminals base on discrete cosine transform
- Achieved compression ratio of about 10, which make it possible for self-organized network application to transfer images with good quality

Web Apps (PHP, Python, Javascript, HTML)

2016 - 2018

- Technique People, A social media platform. <http://www.js-r.com/>
- Conference Booking, <https://github.com/Zhengxiangyue/conferenceBooking>
- Lpyton Doc, A rich text editor. <https://github.com/Zhengxiangyue/lyptondoc>
- Vocabulary Memory, <https://github.com/Zhengxiangyue/MemoryWords>

Experience

Bytedance Software Engineering Intern

May 2018 - Oct 2018

- Developed "Content audit assessing platform" for multiple products of Bytedance. Complete 25% ahead of time schedule
- Automated, standardized the assessment procedure. Time saving over 300% for relative developers