

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