

# Xiangyue Zheng

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## Education

### The George Washington University

Sep 2017 - May 2019(Expected)  
M.S. in Computer Science  
GPA 3.85/4.0 (top 15%)

### Sun Yat-Sen University

Sep 2012 - Jun 2016  
B.S. in Computer Science  
GPA 3.5/4.0

## Skills

### Proficient in:

C/C++, PHP, Python, JavaScript, HTML/CSS

### Others:

Mysql, Git, Redis, thrift, HDFS, Kafka,  
OpenGL, NPM, Docker, Matlab, NodeJs, CMake,  
VUE, Django

### Knowledge:

Algorithms, Operating System, Computer Network,  
Computer Graphics, Machine Learning,  
Data Compression, Web Technique

## Experience

### ByteDance, Beijing Backend Intern

May 2018 - Oct 2018

- Increased efficiency by over 300% for content audit assessment by building an automated, standardized platform which opens up a connection between HDFS infrastructure and the auditing platform. Completed 25% ahead of schedule. Used Django, VUE

### Abeyon, Virginia Software Engineer Intern

Oct 2018 - Present

- Developed and maintained Topline MD, a Miami health resource search platform. Used PHP, jQuery

### MAKA, Guangzhou Software Engineer Intern

Jan 2016 - Apr 2016

- Increased testing and developing efficiency by building a software deployment scheme, beyond tasks assigned, based on git hook and Nginx Wild-Card.

## Projects

### CPU Based Renderer (Graphics, Animation, C++)

Feb 2018 - Present

- Utilized Perspective Transform, Z-buffer, Scan-line algorithms to build a basic rendering tool. Implemented illumination models, texture mapping and depth of field effect
- Designed an animation tool. Implemented spline, Euler angle, quaternion, hierarchy objects

### Real-Time Face Slimming Filter (Machine Learning, Python)

Present

- 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 with good quality

### Web Apps (PHP, Python, Javascript, HTML)

2016 - 2018

- Technique People, a social application, providing an online communication platform for the local annual 8 billion technology transfer contract
- Conference Room Booking, a pure software solution for SMEs
- Lypton Doc, a single page rich text/Markdown editor
- Vocabulary Memory, an English words learning tool, helped me get 100+ TOEFL grade