

# Xiangyue Zheng

+1 (202) 7663792 zhengxiangyue@yahoo.com

## 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