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

Abeyon, Virginia Software Engineer Intern — Oct 2018 - Present

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

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

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

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

Graphics Rendering tool (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
- Developed a facial motion capture toy, helped programmers relax their necks…

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