

ZHENGRONG WANG

765 Weyburn Pl, Apt 56, Los Angeles, CA 90024

(+1) 310-447-4568

seanyukigeek@gmail.com

<https://seanzw.github.io>

<https://www.linkedin.com/in/zhengrong-wang>

EDUCATION

University of California, Los Angeles , <i>Department of Computer Science</i> Master of Science in Computer Science	Los Angeles, U.S. <i>Sep. 2016 - Jul. 2018(expected)</i>
Tsinghua University , <i>Department of Electronic Engineering</i> Bachelor of Engineering in Electronic Engineering GPA: 91/100	Beijing, P.R. China <i>Aug. 2012 - Jul. 2016</i>
ETH Zürich , <i>Department of Information Technology</i> Exchange Student, International Academic Program GPA: 5.50/6.00	Zürich, Switzerland <i>Sept. 2014 - Feb. 2015</i>

PROFESSIONAL & PERSONAL SKILLS

Mathematic: Familiar with calculus, linear algebra, probability theory, discrete mathematics, algorithms.
Computer Capability: Skilled at C/C++, Python, MATLAB.
Language Proficiency: English: Toefl 114; German: B1 Level(MCER).

SELECTED PROJECTS & INTERNSHIPS

Yart-cpp, yet another ray tracer in C++ <ul style="list-style-type: none">• Implement direct lighting and bidirectional path tracing.• Lambertian, specular, refraction and Cook-Torrance BRDF are supported.• Use OC-Tree to accelerate complex mesh.• Repo: https://github.com/seanzw/yart-cpp	<i>Sep. 2015 - Present</i>
Light C-Compiler in C# <ul style="list-style-type: none">• Support C99 standard and generate x86 assembly.• Handwritten regular expression, NFA scanner generator and parser combinator library.• Scanner generated by handwritten scanner generator.• Parser generated by handwritten parser combinator library.• Semantic analysis that checks types and symbols;• Code generation to x86 assembly on Windows (can be directly used by clang assembler)• Repo: https://github.com/seanzw/lcc	<i>Dec. 2015 - Present</i>
OpenCL@FPGA (Undergraduate Thesis) <ul style="list-style-type: none">• Supervised by Assoc. Prof. Fei Qiao, Tsinghua University• Use OpenCL to implement CNN on Xilinx Alpha Data FPGA, and accelerate with pipeline.• Paper on TENCON 16: Optimizing Convolutional Neural Network on FPGA under Heterogeneous Computing Framework with OpenCL	<i>Sep. 2015 - Jun. 2016</i>
MicroPython on FPGA, Dept. EEE, Imperial College London <ul style="list-style-type: none">• Supervised by Prof. Peter Y. K. Cheung, Head of Dept. EEE.• Port MicroPython on Altera DE0-Nano-SoC FPGA.• Build FFT example with DMA.• Repo: https://github.com/seanzw/MicroPythonFPGA	<i>Jul. 2015 - Aug. 2015</i>
Computer Vision Engineering Internship, DeepGlint, Beijing <ul style="list-style-type: none">• Work in the computer vision group to develop a "mirror" demo for a skeleton recognition system.	<i>May. 2015 - Jun. 2015</i>

AWARDS AND HONORS

Second-class Scholarship for Excellent Freshmen, <i>Tsinghua University</i>	<i>Oct. 2012</i>
Wang Zhaosheng Scholarship for Excellent Studeng from Dongguan, <i>Wang Zhaosheng Foundation</i>	<i>Oct. 2012</i>
Second Prize in 30 th Chinese National Physics Contest(non-physical group A)	<i>Dec. 2013</i>
Ranked No.5 in National Matriculation Test(Science), Guangdong Province (5/600,000)	<i>Jun. 2012</i>

EXPERIENCE

Courses in CS

- Compilers by Alex Aiken, Stanford University
- Operating System Engineering, MIT
- Programming Languages by Dan Grossman, University of Washington
- Machine Learning by Andrew Ng, Stanford University
- Algorithms Part I & II by Robert Sedgewick, Princeton University
- Introduction to Computer Science and Programming, MIT
- Introduction to Probability, MIT
- Advanced Computer Graphics, Tsinghua University
- Computer Networks, Tsinghua University
- Software Engineering, Tsinghua University
- Computer Graphics (5.25/6), ETH Zurich
- Computer Vision (5.5/6), ETH Zurich

Children Education Program Volunteer, *Dream a Dream, Bangalore, India*

Jul. 2013 - Sept. 2013