Yi Shi

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https://github.com/WordBearerYI

EDUCATION

New York University **May 2020**
• Master of Science: Computer Science GPA: 3.82/4.0
Polytechnic University of Turin **Oct 2017**
• Bachelor of Science: Computer Engineering (Exchange) GPA: 101/110
Tongji University **July 2017**
• Bachelor of Engineering: Electronic and Information Engineering GPA: 4.27/5

PROFESSIONAL EXPERIENCE

Research Intern **June 2019 - Aug 2019**
Fosun Pharma
Software and computer vision algorithm for medical imaging application
• Participated in an intelligent colposcopy project based on YOLO.
• Constructed preprocessing pipeline using C++.

Software Engineer Intern **Sep 2017 - May 2018**
STMicroelectronics, R&D, Audio Group
Acoustic signal processing library development for microphone array expansion board X-NUCLEO-CCA02M1
• Engaged in software development in C for an expansion board for STM32 f4 family.
• Implemented and optimized real-time acoustic algorithms for official signal processing library using C and Matlab.

PROJECT EXPERIENCE

New York University, Research Projects **Sep 2019 - May 2020**
3D Computer vision research conducted in Multimedia and Visual Computing Lab
• Research Paper (CVPR 2020): Unsupervised Deep Shape Descriptor with Point Distribution Learning
• Research Paper (submitted): 3D mapping and registration with deep spatio-temporal representation
• Research Paper (submitted): 3D shape metric learning via deformation

New York University, Course Project for Computer Graphics **Dec 2019**
A interactive mesh editor using C++ OpenGL
• Constructed a OpenGL graphics pipeline from scratch with ray-tracing and essential coordinates transformation.
• Implemented an interactive mesh editor using OpenGL.

New York University, Course Project for Compiler Design and Construction **May 2019**
A compiler based on LLVM built from scratch using Java
• It supports features including basic arithmetic operations, arrays, tuples, recursions, functions which support all data types, nested loops.

EXTRACURRICULAR STUDY CERTIFICATES

Natural Language Processing Nano-degree Program on Udacity **Aug 2018**
• Project: part-of-speech tagging, machine translation, speech recognition
Functional Programming in Scala by EPFL on Coursera **Jan 2019**
• Functional Programming Principle, Parallel Computing and Sparks

SKILLS

Programming Languages: Python, C/C++, Java, Bash, Matlab
Frameworks/Toolboxes: OpenCV, PyTorch, OpenGL, CUDA
Research Areas: 3D Computer Vision, Deep Learning
Languages: Chinese(Native), English(Fluent)