Spencer Yue

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Education

Bachelor of Science, Computer Engineering, May 2019
The University of Texas at Austin
GPA: 3.83/4.00

Skills

C++, C, Java, JavaScript, Python, MATLAB, CSS, HTML, CUDA C++, TensorFlow, Bash

Projects

videomag *(https://github.com/spenceryue/videomag)*

- Built a web application implementing the Eulerian Video Magnification algorithm to visualize small changes from a user's video or web camera.
- Wrote C implementation based on the original authors' research paper and MATLAB code.
- Interfaced with JavaScript to run in browser by compiling to WebAssembly with emscripten.

Pintos

- Built the process scheduler, user program support, virtual memory manager, and file system modules of the Pintos operating system in C.
- Debugged multi-threaded programs in GDB.
- Practiced code review, pair programming, and version control (Git).

Cpp *(https://github.com/spenceryue/Cpp)*

- Analyzed the CUDA C++ compilation process and built a wrapper API to interface with CUDA kernels and compile independently of Visual Studio (on Windows).
- Explored features of C++17, template meta-programming, STL, and best practices.
- Learned to use CMake to manage and customize build configurations.

StudyParty *(https://github.com/spenceryue/chairs)*

- Built a web application in vanilla HTML, JavaScript, and CSS to share one's location on campus with an interactive 3D interface.
- Designed and animated 3D object models using CSS transforms and Sass preprocessing.
- Researched browser rendering process and tested performance of various animation techniques with SVG, JavaScript, and CSS.

Courses

Computer Engineering: Operating Systems, Data Science Principles & Lab, Algorithms, Software Design 1 & 2 & Lab, Digital Image & Video Processing, Linear Systems and Signals, Digital Signal Processing, Distributed Systems, Intro to Linux

Math: Real Analysis I & II, Number Theory, Linear Algebra, Discrete Mathematics, Stochastic Processes, Probability I, Differential Equations, Calculus I–III

Online Courses: Intro to Parallel Programming, Web Developer Bootcamp

Awards

Silver Medal in Week of Code 36 HackerRank Competition (2018)
Silver Medal in HourRank 25 HackerRank Competition (2018)
Noble Educational Fund Scholarship of $15,000 (2014)
UT Austin Engineering Honors Program, Scholarship of $5,000 (2014)