

Spencer Yue

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Education	<i>Bachelor of Science, Computer Engineering</i> , 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	<p><i>videomag</i> (https://github.com/spenceryue/videomag)</p> <ul style="list-style-type: none">▪ 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 research paper and authors' MATLAB code.▪ Interfaced with JavaScript to run in browser by compiling to WebAssembly with emscripten. <p><i>Pintos</i></p> <ul style="list-style-type: none">▪ 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). <p><i>Cpp</i> (https://github.com/spenceryue/Cpp)</p> <ul style="list-style-type: none">▪ 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. <p><i>StudyParty</i> (https://github.com/spenceryue/chairs)</p> <ul style="list-style-type: none">▪ 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	<p><i>Computer Engineering</i>: 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</p> <p><i>Math</i>: Real Analysis I & II, Number Theory, Linear Algebra, Discrete Mathematics, Stochastic Processes, Probability I, Differential Equations, Calculus I–III</p> <p><i>Online Courses</i>: Intro to Parallel Programming, Web Developer Bootcamp</p>
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)