

Spencer Yue

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OBJECTIVE	Summer internship in front-end web development.
EDUCATION	Bachelor of Science, Computer Engineering Honors (May 2019) The University of Texas at Austin GPA: 3.84/4.00
SKILLS	React, JavaScript / TypeScript, CSS / Sass, Python, Bash
WORK EXPERIENCE	Tietronix Software Inc., Software Intern (Jun 2018 – Aug 2018) <ul style="list-style-type: none">Extended an open-source ultrasound imaging <u>simulator</u> to apply the <u>Spatial Impulse Response algorithm</u>.Built a Python wrapper with <u>pybind11</u> and <u>ATen</u> to manage GPU memory.Configured <u>CMake</u> with <u>clang</u> and <u>lld</u> for faster builds.See https://github.com/spenceryue/OpenBCSim.
PROJECTS	Solar Monitoring Project (Current) <ul style="list-style-type: none">A <u>dashboard app</u> to monitor solar panel performance for a UT professor's research lab.Built with <u>React</u>, <u>TypeScript</u>, and <u>Google Firebase</u>.See https://github.com/santoso-solar-monitoring-project/main-page. videomag (Oct 2017 – Dec 2017) [https://github.com/spenceryue/videomag] <ul style="list-style-type: none">A <u>video filtering app</u> to amplify small changes from user's web camera.Implemented in <u>C</u> the <u>Eulerian Video Magnification algorithm</u>.Built with <u>JavaScript</u> and <u>WebAssembly</u> (compiled with <u>emscripten</u>). StudyParty (Mar 2017 – May 2017) [https://github.com/spenceryue/chairs] <ul style="list-style-type: none">A <u>location sharing app</u> for study locations at UT with 3D indoor building maps.Built with <u>SVG</u>, <u>CSS 3D transforms</u>, and <u>Sass preprocessing</u>.
COURSES	<u>Operating Systems</u> , <u>Algorithms</u> , <u>Software Design Lab</u> , <u>Data Science Principles</u> , <u>Real Analysis (Graduate)</u> , <u>Complex Analysis (Graduate)</u> , <u>Topology I</u> , <u>Algebra I</u>
AWARDS	Silver Medal (92 th percentile) in <u>Week of Code 36</u> HackerRank Competition (2018) Silver Medal (90 th percentile) in <u>HourRank 25</u> HackerRank Competition (2018)