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

**EXPERIENCE**

**WORK** **Tietronix Software Inc., Software Intern** (Jun 2018 – Aug 2018)

* Extended an [open-source](https://github.com/sigurdstorve/OpenBCSim) ultrasound imaging [simulator](https://www.semanticscholar.org/paper/Fast-Simulation-of-Dynamic-Ultrasound-Images-Using-Storve-Torp/f1a4545c13ce98d054ad17a77b0a62fad084c20d) to apply the [Spatial Impulse Response algorithm](https://field-ii.dk/documents/jaj_ieee_symp_1997.pdf).
* Built a Python wrapper with [pybind11](https://pybind11.readthedocs.io/en/stable/intro.html) and [ATen](https://github.com/pytorch/pytorch/tree/master/aten) to manage GPU memory.
* Configured [CMake](https://cmake.org/) with clang and lld for faster builds.
* See[*https://github.com/spenceryue/OpenBCSim*](https://github.com/spenceryue/OpenBCSim).

**PROJECTS Solar Monitoring Project**(Current)

* A [dashboard app](https://santoso-solar-monitoring-project.github.io/main-page/?selectedKind=Welcome&selectedStory=to%20Storybook&full=0&addons=1&stories=1&panelRight=0&addonPanel=storybook%2Factions%2Factions-panel) to monitor solar panel performance for a UT professor’s research lab.
* Built with [React](https://reactjs.org/), [TypeScript](http://www.typescriptlang.org/), and [Google Firebase](https://firebase.google.com).
* See [*https://github.com/santoso-solar-monitoring-project/main-page*](https://github.com/santoso-solar-monitoring-project/main-page).

**videomag**(Oct 2017 – Dec 2017) *[*[*https://github.com/spenceryue/videomag*](https://github.com/spenceryue/videomag)*]*

* A [video filtering app](https://spenceryue.me/videomag/) to amplify small changes from user’s web camera.
* Implemented in [C](https://en.wikipedia.org/wiki/C_(programming_language)) the [Eulerian Video Magnification](http://people.csail.mit.edu/mrub/evm/) algorithm.
* Built with JavaScript and [WebAssembly](https://webassembly.org/) (compiled with emscripten).

**StudyParty**(Mar 2017 – May 2017) *[*[*https://github.com/spenceryue/chairs*](https://github.com/spenceryue/chairs)*]*

* A [location sharing app](http://study-party-ut.herokuapp.com) for study locations at UT with 3D indoor building maps.
* Built with [SVG](https://developer.mozilla.org/en-US/docs/Web/SVG), [CSS](https://developer.mozilla.org/en-US/docs/Web/CSS) 3D transforms, and [Sass](https://sass-lang.com/) preprocessing.

**COURSES** [Operating Systems](http://www.ece.utexas.edu/undergraduate/courses/ee-461s), [Algorithms](http://www.ece.utexas.edu/undergraduate/courses/360c),[Software Design Lab](http://www.ece.utexas.edu/undergraduate/courses/461l), [Data Science Principles](http://www.ece.utexas.edu/undergraduate/courses/ee-461p), Real Analysis (Graduate), Complex Analysis (Graduate), Topology I, Algebra I

**AWARDS** Silver Medal (92th percentile) in [Week of Code 36](https://www.hackerrank.com/contests/w36/leaderboard/92) HackerRank Competition (2018)

Silver Medal (90th percentile) in [HourRank 25](https://www.hackerrank.com/contests/hourrank-25/leaderboard/30) HackerRank Competition (2018)