

# Joseph Thomas Hines III

## Education

Drexel University, Philadelphia, PA. **GPA: 3.81.**  
Graduated: June 2021.

**Master of Science, Computer Science.**  
**Bachelor of Science, Computer Science.**  
Minor, *Technology Innovation Management*

## Honors and Awards

- **Drexel CCI Dean's List**, x8
- **A.J. Drexel Scholarship**, 2016 - 2021

## Activities

- *Active Member*, Upsilon Pi Epsilon
- *Participant*, Philly Codefest 2018

## Skills

- **Operating Systems:** Linux, Windows, OSX
- **Languages:** JavaScript/TypeScript, Python, Go, C, Bash, Java, Rust, Haskell, CSS/SASS, SQL, C++
- **Tools/Libraries:** git, Docker, node, React, Redux, React Native, GNU coreutils, numpy, webgl, gdb, valgrind

## Experience

**Cesium GS, Inc.** *Software Developer* (1/21 - Present)

- Contribute to full-stack geospatial web application developed for key business partner
- Implement features, fix bugs, and refactor code on the client and server
- Improve developer tooling to increase productivity and lower iteration time for all team members

**TutorMe.com**, *Tutor* (8/20 - 1/21)

- Tutored students remotely in Math, Computer Science, and Physics

**Drexel University**, *Teaching Assistant Substitute* (5/20 - 6/20)

- Filled in for the last 4 weeks of the Spring term for CS 265 (Advanced Programming Techniques)
- Graded labs and homework, helped students with Bash, C, and data structures during office hours

**Bentley Systems**, *Web Development Co-op* (9/18 - 3/19)

- Created and maintained an internal style guide, library, and framework specific components
- Developed a React component system for internal use, using style from aforementioned library
- Aided in developing a GraphQL service and example frontend components

**Penn Mutual Life Insurance**, *Software and Web Development Co-op* (9/17 - 3/18)

- Developed and maintained various REST APIs and internal web interfaces
- Worked with lead users to facilitate transition to one unified internal application
- Finished first release of internal web application, improved workflows for teams throughout the company

## Projects

**Dulcimer Live**, *Frontend Lead* (Drexel CCI Senior Design)

Source: [https://cci.drexel.edu/seniordesign/2020\\_2021/dulcimerlive/index.html](https://cci.drexel.edu/seniordesign/2020_2021/dulcimerlive/index.html)

- **Technology:** TypeScript, lit-element, Go, Docker, Kubernetes, Gitlab
- Won first place in the Entrepreneurship category for the 2020-2021 academic year
- Created an online video streaming platform for in-person music events
- Built prototype for the Philadelphia Folk Festival while developing generic white-labeled backend and UI toolkit

**Learning To See in the Dark**, *Machine Learning, Frontend Web* (CS583 - Computer Vision)

About: [jzlotek.github.io/cs583-final/](https://github.com/jzlotek/cs583-final/)

- **Technology:** python3, tensorflow, keras, Flask, node, React, JavaScript, CSS, Google Colab
- Started with the repository produced by a research project, written in a deprecated tensorflow version
- Translated the 27-layer CNN to keras and optimized all processes to be batched and run on average hardware
- Created a simple webapp that allowed users to upload images and receive the output of the model

**Municipal Solutions**, *Fullstack Web* (CS530 - Designing User Interfaces)

Source: [github.com/ephjos/cs530-project](https://github.com/ephjos/cs530-project)

- **Technology:** python3, Flask, sqlite3, Bootstrap, JavaScript, OpenLayers, CSS
- Using experience from public works, created a solution for planning road closures
- Allowed users to interact with a map and plan placement of resources and personnel
- Integrated several workflows and allowed a report to be generated to communicate the plan