Joseph Thomas Hines III

Education

Drexel University, Philadelphia, PA. **GPA:** 3.79. Anticipated Graduation: June 2021.

Master of Science, Computer Science. Bachelor of Science, Computer Science.

Minor, Technology Innovation Management

Skills

- Operating Systems: Arch Linux, Windows, OSX
- **Software:** VSCode, Microsoft Office, Azure DevOps, IntelliJ, Eclipse, Visual Studio
- **Languages:** JavaScript, TypeScript, CSS, Sass, Python, Go, Bash, Haskell, Java, SQL, C, C++
- **Tools/Libraries:** Git, Docker, npm, React, numpy, Keras, Flask

Honors and Awards

- Drexel College of Computing and Informatics Dean's List, x8
- A.J. Drexel Scholarship, Drexel University, 2016 -Present
- Certificate of Merit, Career Management and Profession Development, Drexel University, Winter 2017.

Activities

- Member, Upsilon Pi Epsilon, Drexel Chapter, Fall 2019
 Present
- Participant, Philly Codefest 2018

Experience

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

- Created and maintained a well-designed internal style guide, library, and framework specific components.
- Developed a React component system for internal use, using style from aforementioned library
- · Aided in development of GraphQL service for unifying multiple internal endpoints
- Developed UI components/examples showcasing how to interface with GraphQL service

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, positive feedback from 100s of users across the company

Rockledge Borough, Public Works Laborer (12/16 - 1/19)

- Manage inventory of industrial grade tools and machinery at garage
- Maintain cleanliness of garage as well as neighborhood parks and streets
- Operate various machines for park and street maintenance/construction projects
- Complete manual labor to enable colleagues to be more efficient

Projects

Learning To See in the Dark, *Machine Learning, Frontend Web* (CS583 - Computer Vision) About: jzlotek.github.io/cs583-final/

- Technology: python3, tensorflow, keras, Flask, npm, 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 that output of the model

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

Source: github.com/josephthomashines/cs530-project

- Technology: python3, Flask, sqlite3, Bootstrap, JavaScript, OpenLayers, CSS
- Using experience from public works, create a solution for planning road closures
- Enable users to create and sign into accounts, where the can create and work on several projects
- Allow users to interact with a map and place resources like barricades an vehicles
- Combine the map with a personnel list and a plan to make a fully integrated workflow
- Generate a report detailing the resources required for the plan and how to execute it

Checkers Fullstack Web (CS451 - Software Engineering)

Source: github.com/josephthomashines/cs451-project

- Technology: npm (yarn), TypeScript, express, CSS
- Create an online multiplayer checkers game, using the USACheckers ruleset
- Enable players to enter a queue on the server and be paired into games
- Provide a simple and fast interface to enable a satisfying gameplay experience