

Max Guthrie

Computer science student seeking a software engineering internship

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LEADERSHIP & INVOLVEMENT

Director of Technology

[Engineering-Consulting Collaborative](#) 06/2020 - Ongoing
University Park, State College, PA

Penn State professional organization dedicated to improving problem-solving, leadership, and consulting skills.

- Making changes and HTML/CSS code for the organization's website.
- Working with a team of E-CC associates to complete projects and make improvements to E-CC from a technology standpoint.
- Help with hosting in-house case competitions.

Member & Competitor

[DevPSU](#) 08/2020 - Ongoing University Park, State College, PA

Emphasizes collaborative programming by hosting coding projects and competitions. A section of the club, DevPSU Learning, also hosts weekly events that teach concepts ranging from web development to machine learning.

- Teaches concepts and applications that are under emphasized in intro classes.
- Experience creating full-stack web applications with Flask.

Member

[Nittany Data Labs](#) 09/2020 - Ongoing University Park, State College, PA

A Penn State organization involved in teaching data science to its members and working on projects pertaining to health, entrepreneurship, and various other topics.

PERSONAL PROJECTS

Personal Portfolio Website

<https://github.com/mguthrie45/Portfolio-Website>

A responsive and polished website made from scratch. Presents my involvement, projects, and coursework at Penn State.

- Used technologies: HTML, CSS, JavaScript

Stock Market Sentiment

<https://github.com/mguthrie45/Stock-Sentiment-Analyzer>

Python-based software that scrapes the web for news pertaining to a ticker on the user's watchlist. A sentiment analyzer is applied to parsed news content to find the positive-negative score of a certain stock, and users are notified in the program and by email when a stock significantly changes in sentiment.

- Used technologies: Python 3, BeautifulSoup4, Pandas, Tkinter, NTLK, threading, SMTP requests.

Sorting Algorithm Visualizer

<https://github.com/mguthrie45/Sorting-Algorithm-Visualization>

Full-stack, responsive application with Object-oriented back end JS. Made with an easy-to-understand UI that presents smooth animations for famous sorting algorithms.

- Used technologies: JavaScript, HTML, CSS

Top-Down Survival Game

<https://github.com/mguthrie45/Survival-Bullet-Hell>

A JavaScript game where the player moves within the canvas to collect upgrades and shoot enemy objects that bounce around. Upgrades improve the player object's abilities. The longer the player survives and the more upgrades collected, the higher the score. A boss wave spawns periodically, and collision physics for both the player and enemies and objects and walls are existent.

EDUCATION

B.S. Computer Science

[Pennsylvania State University](#) GPA: 4.0

08/2019 - Ongoing State College, PA

PROGRAMMING LANGUAGES

Python



HTML & CSS



JavaScript



Java



SKILLS

GIT

Bootstrap

Data Structures

UML

Verilog

Combinational/Sequential Logic

MIPS/Assembly Language

HONORS & AWARDS



Penn State Freshman Award:

award given to the highest academic achievers in PSU's freshman class



Cum Laude Society

Given to the highest academic achievers graduating high school.



Mu Alpha Theta

Awarded for exceptional use of math at 2019 PRSEF science fair.