

# Max Guthrie

## Computer science student seeking a software 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. E-CC offers pro bono consulting to local startups and seeks to help its members network.

- Making changes and HTML/CSS code for the organization's website.
- Leading a team of associates to develop a Flask web application to organize team members for the organization's events.
- Help with hosting in-house case competitions.

#### Member

[AlgoPSU](#)   01/2021 - Ongoing   University Park, State College, PA

An organization devoted to preparing students for technical coding interviews. Topics discussed were data structures, time & space complexity, and coding interview problems.

#### Member

[Penn State Investment Association \(PSIA\)](#)   01/2021 - Ongoing  
University Park, State College, PA

A student-led hedge fund with over \$7 Million in assets and numerous alumni investors.

- Discusses investment strategies for various sectors.
- Financial indicators and portfolio risk management.
- Consistently achieves market beating returns.

#### Crew Leader

[Penn State Food Services](#)   06/2019   University Park, State College, PA

Penn State Dining Commons

- Cooking and preparing food for customers
- Closing down and cleaning stations at close
- Required professional and polite interaction with customers

### PERSONAL PROJECTS

#### 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.

#### Python Search Engine

<https://github.com/mguthrie45/Search-Engine-Simulation>

A rudimentary search engine built with Python 3. Flask was used for the user interface.

- Involved three main components: SQLite database for storing site content and keywords, the Flask based GUI, and the crawler, which was responsible for finding new websites.
- This project taught me a lot about how search engines gather info from the web, how search results are found, and important concepts surrounding SEO optimization.

#### 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

### EDUCATION

B.S. Computer Science, Economics Minor  
[Pennsylvania State University](#)   GPA: 3.98

08/2019 - 05/2023   State College, PA

### PROGRAMMING LANGUAGES

#### Python



#### HTML & CSS



#### JavaScript



#### Java



#### C



### SKILLS

GIT

Shell (UNIX and Windows)

Bootstrap

Tensorflow & SKL (Beginner)

SQL (Basic Experience)

SQLite

Data Structures & Algorithms

Verilog & Xilinx Vivado

MIPS ISA & CPU Design

VMWare

Systems Programming (C)

Flask

JDBC & Apache Derby

Microsoft Excel

Microeconomic Analysis (Inter)

### Strengths

Presentation and Speaking

Optimism

Intellectual curiosity

Open mindedness