

# GRAHAM BURLEIGH

## Computer Science Major

@ grahamburleigh2022@u.northwestern.edu

📍 Chicago, IL

in linkedin.com/in/gbburleigh

📄 github.com/gbburleigh

## EDUCATION

Northwestern University

**Bachelor of Science in Computer Science**

📅 Sep 2018 – Mar 2022 📍 Evanston, IL

- McCormick School of Engineering

## EXPERIENCE

Data Science Consultant

**Kellogg School of Management**

📅 Dec 2020 – Pres 📍 Evanston, IL

- Programmed a library of Python scripts for web-scraping forum posts on various websites and finding trends in censored or modified content.
- Coordinated directly with Prof. mentor to develop and implement strategies for classifying problematic topics in different online settings.
- Automated scraping and parsing processes through various bots that regularly return JSON reports.

Teaching Assistant

**Center for Talent Development**

📅 Jun 2019 – Nov 2020 📍 Evanston, IL

- Assisted with the development and implementation of various STEM based classes, covering topics including Python programming and Data Science.
- Led groups of students through activities focusing on critical thinking and problem solving.
- Worked directly with supervisors to organize administrative information surrounding each class.

Chief Audio Engineer/Audio Technician

**Young Company**

📅 Jan 2017 – Jun 2018 📍 Chicago, IL

- Supervised a crew of peers to handle all aspects of sound production for all events in the theatre.
- Learned and utilized a variety of new technologies rapidly.
- Worked with stage management to develop audio projects in the scope of larger productions.

## COURSEWORK

AI + Machine Learning   Networking   Software Dev  
Human Computer Interaction   Security   Theory  
Data Science   Calculus/Linear Algebra/Number Theory  
Design Thinking and Communication

## LANGUAGES

English  
Spanish



## TECHNICAL SKILLS

Python   C/C++   Java   JavaScript  
Linux   Crypto/Math Theory   MySQL  
Networking Stack   Bash/Shell

## PROJECTS

### ScrapeLib

- CLI Webscraping library for analyzing censorship on job-posting forums.
- Automatically fetches and updates threads using caching, webdrivers, and multithreading, and performs analysis on posted messages and metadata.

### Isabelle's Adventure

- Small item-collecting game written entirely in 32-bit assembly code.
- Efficiently programmed mechanics that directly manipulated data in registers and stack.

### MarketCoin

- Blockchain ecosystem written in Python featuring proof-of-work and consensus mechanics mirroring popular cryptocurrencies such as Bitcoin
- Utilized PKI to validate transactions and achieve mutual agreement between blockchain participants.

### Spoil

- Rudimentary website meant to assist users in tracking their food's expiration dates and optimizing their grocery budget.
- Designed website from scratch in HTML/CSS and implemented various JavaScript helpers to handle backend management of user data.

## SOFT SKILLS

- Excellent interpersonal skills; proficient at both leading and working within a team and quick to develop productive relationships with coworkers.
- Highly organized and adaptable learner who is able to pick up new technologies on the fly.
- Mature problem solving and critical thinking skills; uses an engineer's mindset when tackling new challenges.
- A self-starter who is incredibly motivated and hungry to expand his knowledge in the field of computer science.

## ACCOMPLISHMENTS

- UCSB iCTF 2021 Participant
- National Merit Scholar
- Service trips to Ecuador and Peru
- Python Tutoring