

Daniel Knopf

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EDUCATION

Wesleyan University, Middletown, Connecticut

May 2022

Bachelor of Arts, GPA: 3.91/4.00

Double Major: Computer Science, English

Relevant Coursework: Automata and Language Theory, Algorithms and Complexity, Discrete Math, Working with Stata, SQL and Databases, R, Excel and VBA, Computer Science 211 & 212, Videogame Development

WORK EXPERIENCE

Software Engineer, Wesleyan University Privacy Tech Lab, Middletown, Connecticut

September 2020 – Present

- Building landing pages using **HTML**, **CSS**, **Javascript**, and **Bootstrap** for privacy group [Global Privacy Control](#) as well as for the privacy tech lab's [OptMeowt](#) privacy extension

Teaching Assistant, Computer Science 211, Middletown, Connecticut

September 2019 – Present

- Lead weekly help sessions to explain foundational computer science concepts to 40 students

Software Engineer Intern, [HCI](#), Indianapolis, Indiana

May 2020 – August 2020

- Created a **Python Selenium** web scraper that scrapes lab test data from competitor websites to improve HCI's test matching by scraping information on 12,000 tests weekly
- Implemented **Python multiprocessing** pools for the scraper to cut down run-time from 8 hours to 2 hours
- Developed error handling and debugging on the web scraper to ensure that it would notify HCI of any changes to the websites being scraped as well as any other potential errors
- Coded a long-running process killer using **bash** and Python to end unnecessary processes and free up RAM

PROJECTS

Software Engineer, [SpotCheck](#)

May 2020 – September 2020

- Created a site to alert Wesleyan students when a seat in a class they want opens up during schedule adjustment
- Used **Python BeautifulSoup** and cron to scrape 550 course availabilities every 5 minutes and email subscribed students about openings, sending over 2000 emails to more than 425 users
- Tested my own site using **Python Selenium** bots to simulate the load of actual users to stress-test performance
- Hosted on **Google App Engine** using **Google Datastore** and **Python Flask**

Coder/Dialogue Writer, [The Great Invention Heist](#), Wesleyan University COMP350

January 2020 – May 2020

- Worked with a team of five and used **Unity** and **C#** to create a 2D drag-and-drop game that teaches 2nd-5th graders STEM concepts over the course of a 5 month class taught by Bethesda founder Chris Weaver
- Ranked first by a group of video game industry professionals at an end-of-class game presentation

Founder, **Verse-A-Tility**, Yale Hackathon 2019

October 2019

- Scraped over 300 popular karaoke songs from Google using **Python Selenium** to create a program that provides a list of the top 10 most karaokeable songs from a user's Spotify playlists

ADDITIONAL EXPERIENCE

Co-Founder, **WesHack**, Middletown, Connecticut

January 2021 – Present

- Organized Wesleyan's first hackathon in five years, drawing in over 40 students for a weekend of coding

Head Opinion Editor, **Wesleyan Argus**, Middletown, Connecticut

September 2018 – Present

- Provide constructive feedback to writers to help them improve and communicate their arguments clearly

SKILLS AND INTERESTS

Computer: Python (Flask, Django, Selenium, BeautifulSoup, multiprocessing), Javascript, NodeJS, React, Google Cloud Technology (App Engine, Datastore, Firebase, Firestore), Heroku, Swift, C#, Unity, Java, SQL, JSON, GitHub