

Daniel Knopf

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EDUCATION

Wesleyan University, Middletown, CT

May 2022

Bachelor of Arts, Majors: Computer Science & English, Minor: IDEAS, GPA: 3.91/4.00

Relevant Coursework: Automata and Language Theory, Algorithms and Complexity, Software Engineering, SQL and Databases, Computational Media: Videogame Development

PROFESSIONAL EXPERIENCE

Software Engineer Intern, Citrix, Burlington, MA

June 2021 – August 2021

- Reduced data retrieval times by 75% by discovering and solving a major inter-service bottleneck
- Solved customer bug tickets by single-handedly identifying and fixing production-level issues in years-old code
- Collaborated with staff engineers to refactor C#.NET code to handle unit tests, streamlining future testing

Software Developer, Wesleyan University Privacy Tech Lab, Middletown, CT

September 2020 – April 2021

- Built a React landing page for major privacy group [Global Privacy Control](#) that has been visited 3,000+ times

Software Engineer Intern, HCl, Indianapolis, IN

May 2020 – August 2020

- Web scraped 12,000+ lab tests weekly from competitor websites by creating a Python Selenium web scraper, improving HCl's lab test matching
- Implemented Python multiprocessing pools to parallelize the scraper, leading to a 75% reduction in run time
- Developed error handling on the web scraper to ensure that HCl would be notified of any future problems
- Coded a long-running process killer using bash and Python to free up 10% of RAM being used on our server

LEADERSHIP/ACTIVITIES

Co-Founder/Web Developer, WesHack, Middletown, CT

January 2021 – Present

- Co-organized Wesleyan's first hackathon in five years, drawing in over 60 students for a weekend of coding
- Raised \$1,500+ from local restaurants and Wesleyan campus centers for prizes and stickers
- Created and entered a React Native app, [HOME](#), to streamline Wesleyan housing selection for future Wes seniors

Teaching Assistant, Computer Science 112, 211 & 312, Middletown, CT

September 2019 – Present

- Held weekly office hours to assist students in problems involving topics such as Dijkstra's Algorithm, dynamic programming, and time complexity; participated in grading and assessment

PROJECTS

Fullstack Developer, Verse-A-Tility

July 2021 – Present

- Collaborate with two team members on a site that builds a playlist of a user's most karaokeable songs on Spotify
- Built a Django REST API backend and a React JS frontend hosted on Heroku and Google Cloud Platform

Backend Team Leader, OurCampus

January 2021 – Present

- Created Firebase Functions using Javascript Node.JS and Cheerio to scrape information from Wesleyan dining menus and update the OurCampus iOS app with a centralized database of menus used by 400+ students daily

Software Engineer/Creator, SpotCheck

May 2020 – Present

- Created a site to alert Wesleyan students when a seat opens up in a class they want during schedule adjustment
- Used Python BeautifulSoup and cron to scrape 550 course availabilities every 5 minutes and notify subscribed students about openings, sending over 5,000 texts and emails to more than 1,000 users
- Hosted on Google App Engine using Google Datastore and Python Flask

SKILLS

Programming Languages: Python, Javascript, C#, SQL

Frameworks/Tools: Django, React, React Native, Google Cloud Platform (App Engine, Firebase, Firestore), Selenium,