Kaily Liu

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EDUCATION

University of Pennsylvania

Candidate for Bachelor of Science in Engineering in Computer Science and Bachelor of Science in Economics   GPA: 3.93

Relevant Coursework: Programming Languages and Techniques, Mathematical Foundations of Computer Science, Data Structures and Algorithms, Networked Life, Market and Social Systems on the Internet

Hopewell Valley Central High School

High School Diploma   GPA: 4.64

EXPERIENCE

Computational Social Sciences Lab - Research Assistant | Philadelphia, PA   December 2021 - present

- Conducted research on group dynamics under Duncan Watts.
- Created 11 muti-player and single-player tasks using ReactJS, NodeJS, and the Empirica framework.
- Systemized identification of collaboration and competition among groups of players.
- Presented findings to a team of researchers at the University of Pennsylvania and Massachusetts Institute of Technology.

The Daily Pennsylvanian - Data Analyst | Philadelphia, PA   January 2022 - present

- Parsed data from Google Analytics, Survey Monkey, and Instagram Analytics using Python's Pandas and NumPy libraries.
- Lead analysis of trends among tagged articles on the Daily Pennsylvanian website on a team of 10 students.
- Uncovered patterns among tag locations and pairings, slug and title length, web traffic, and page location for search engine optimization.
- Presented findings to The Daily Pennsylvanian Editorial Board using quantitative analysis and visuals bi-monthly.

University of Pennsylvania - Access Services Student Assistant | Philadelphia, PA   August 2021 - December 2021

- Assisted at the Circulation Desk and Scanning Department at Penn's Van Pelt Library.

PROJECTS

Analysis of the U.S. Senate Committees   April 2022 - May 2022

- Scraped information from Wikipedia and the U.S. Senate website using JSoup to develop a graph that traces committee involvement of senators.
- Used graph algorithms to analyze the correlation between seniority and influence in committees.

2048 Game   December 2021

- Utilized Java and Java Swing to implement 2048.
- Added features of scorekeeping, saving games, and undoing moves using I/O.

Beam   February 2020 - March 2020

- Created a scheduling app using Java in Android Studio. Stored user data using SQL.

Personal Website   October 2020 - November 2020

- Used HTML, CSS, and Javascript to create a personal website. https://kailyl.github.io/.

Technical Skills

Programming: Java, Python, OCaml, SQL

Web Design: React, HTML, CSS, JavaScript, Figma

ACTIVITIES

Society of Women Engineers   Jan 2022 - present

- Girls in Engineering And Related Sciences (GEARS) day; communicated with local high schools and students to organize educational resources for students in understanding more about different STEM Majors.

Women in Computer Science   October 2021 - present

- Sponsorship Committee; communicated with companies (Google Cloud, Blackrock, etc.) to recruit mentors and funding for FemmeHacks, UPenn's hackathon for women, non-binary, and gender non-conforming people.

SEAS Wellness   September 2021 - present

- Marketing Committee; create content on social media using Canva to spread awareness about wellness resources and events.