

Samantha L. Lee

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EDUCATION

Rutgers University, New Brunswick, NJ

Sep 2018 – May 2022

- B.S. in Computer Science and Cognitive Science, **Minor** in Political Science
- **Honors & Programs:** SAS Honors Program, Phi Beta Kappa, Douglass Residential College for Women
- **GPA:** 3.9 / 4.0

EXPERIENCE

Head Teaching Assistant @ Rutgers University

Sep 2020 – present

- Manage lesson plans, Q&A forum, and project grading for 650+ undergraduate students in Data Structures in Java
- Lead weekly recitations of 40+ undergraduates by practicing accessible and inclusive pedagogical strategies

Research Assistant @ Nicolas Lab

Sep 2021 – present

- Conduct literature review on ML bias and feedback loops caused by social media recommendation systems
- Design research studies to explore relationships between social media algorithms and user activity

Software Development Intern @ Audible, Inc.

Jun 2021 – Aug 2021

- Upgrade the special promotion section of the Audible buy box in Java to minimize code redundancy, centralize logic, mitigate error boundaries, and improve consistency across buy boxes
- Design BOGO API while following existing architectural standards to integrate section into website framework

Application Development Intern @ The Vanguard Group

May 2020 – Jul 2020

- Consumed AWS services (DynamoDB, CloudFormation, Kinesis, Lambda, and S3) and Qlik to establish ERISA compliance across brokerage data by developing a change data capture algorithm that marks eligible accounts
- Fetched several years' worth of brokerage data in Java and Python and improved runtime efficiency by 90%

Research Assistant @ InfoSeeking Lab

Jan 2019 – Oct 2019

- Updated a web app in PHP that helps researchers design and run information retrieval studies
- Built a Chrome Extension that collects browsing data in JavaScript to simplify behavioral research
- Employed SQL, Laravel, and Python to organize multiple streams of data for downstream machine learning

PROJECTS

LGBTQ+ Policy Map | Out in Tech U Mentorship Program

Spring 2021

- A visualization of America's legislative activity and LGBTQ-related policies; built with Next.js and Python

EZSlides | HackRU Spring 2021 Hackathon [Winner]

Spring 2021

- A script that processes live and pre-recorded videos to extract text in slideshows; built with Python

Pink Lemonade | Estée Lauder's 2020 Hack for Pink Hackathon [Finalist]

Fall 2020

- A web app that suggests recipes with ingredients that fight against breast cancer; built with JavaScript

LEADERSHIP & ACTIVITIES

Volunteer Political Analyst | Bluebonnet Data

Sep 2020 – present

- Lead team of three to aggregate US data from multiple sources with Python, SQL, and Excel to identify locations vulnerable to fossil fuel projects on county, district, and city levels for Lead Locally, a nonprofit
- Visually map American voter information using JavaScript to help campaigns fight against climate change

Founder & President | Rutgers Ethical Technology Club (Ethitech)

Jul 2020 – present

- Establish financial, structural, and logistic precedence for a new club dedicated to using tech and data for good
- Organize weekly workshops dedicated to education, technical development, Socratic discussion, and activism

President & Hackathon Director | Rutgers Women in Computer Science

Apr 2020 – present

- Manage \$50k+ in finances, sponsorship, marketing, outreach, and events by delegating tasks to 7 committees, overseeing upwards of 60 volunteers, and making executive decisions to iteratively improve club initiatives
- Coordinate annual hackathon for gender minorities to nurture community of 650+ university students

SKILLS

- **Programming:** Java, C, JavaScript, Python
- **Web Development:** JSP, SQL, PHP, Laravel, React, Next.js, Gatsby, Bootstrap, HTML/CSS
- **Other:** AWS (Certified Cloud Practitioner), Chrome Developer Tools, Git, Civis, NGP VAN