

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:** SAS Honors Scholar, Phi Beta Kappa member, Douglass Woman in STEM
- **GPA:** 3.8 / 4.0

EXPERIENCE

Head Teaching Assistant @ Rutgers University

Sep 2020 - present

- Deliver a range of assessment activities and technical lesson plans that are used by 30+ other teaching assistants and 650+ undergraduate students enrolled in Data Structures in Java
- Lead weekly recitations that accommodate the learning styles of 40+ undergraduate students by practicing a variety of accessible and inclusive pedagogical strategies that promote active learning

Application Development Intern @ The Vanguard Group

May 2020 - Jul 2020

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

Research Assistant @ InfoSeeking Lab

Jan 2019 - Oct 2019

- Upgraded 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 MySQL and Laravel to organize multiple streams of data for readability and accessibility
- Extracted features from browsing data in Python for downstream machine learning

SKILLS

- **Programming:** Java (6+ yrs), C (4+ yrs), JavaScript (3+ yrs), Python (2+ yrs)
- **Web Development:** SQL, PHP, Laravel, React, Gatsby, Bootstrap, HTML/CSS
- **Other:** AWS (Certified Cloud Practitioner), Chrome Developer Tools, Git, Civi, NGP VAN

PROJECTS

LGBTQ+ Policy Map | Out in Tech U Fellowship

Spring 2021

- An interactive visualization of America's state-level legislative activity and LGBTQ-related policies
- Leverages Python to fetch data from the Legiscan API and Next.js to render efficient web app

EZSlides | HackRU Spring 2021 Hackathon [Winner]

Spring 2021

- A Python program that processes live and pre-recorded lectures to extract presentation text
- Utilizes OpenCV, ImageHash, PyAutoGUI, and PyTesseract to perform OCR on unique frames

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

Fall 2020

- A JavaScript web app that suggests recipes with ingredients that fight against breast cancer
- Utilizes the Edamam REST API to analyze the nutrition of ingredients and score and rank recipes

LEADERSHIP & ACTIVITIES

- **Volunteer Political Analyst** | Bluebonnet Data & Lead Locally Sep 2020 - present
- **Code for Equity Fellowship Coordinator** | Impact Labs Sep 2020 - present
- **Founder & President** | Rutgers Ethical Technology Club (Ethitech) July 2020 - present
- **President & Hackathon Director** | Rutgers Women in Computer Science Apr 2020 - present
- **Girls Who Code Facilitator** | Rutgers Girls Who Code College Loops Oct 2018 - present