Samantha L. Lee

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EDUCATION

Rutgers University, New Brunswick, NJ   *Sep 2018 – May 2022*

- **B.S.** in Computer Science
- **B.A.** in Cognitive Science
- **Minor** in Political Science
- **GPA:** 3.8 / 4.0
- **Programs:** SAS Honors Program, Douglass Residential College for Women

EXPERIENCE

Teaching Assistant @ Rutgers University   *Sep 2020 – present*

- Lead weekly recitations, evaluate projects, and grade exams for a section of Data Structures in Java
- Prepare detailed explanations for problem sets that cover hash tables, trees, graphs, sorting, and more
- Accommodate learning styles of upwards of 40 students by reviewing material during office hours

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 (5+ yrs), C (3+ yrs), JavaScript (2+ yrs), Python (1+ yrs)
- **Web Development:** SQL, PHP, Laravel, Gatsby, Bootstrap, HTML/CSS
- **Other:** AWS (Certified Cloud Practitioner), Chrome Developer Tools, Git

PROJECTS

Train Scheduler   *Fall 2020*

- A full-stack train booking web app that stores train routes and user data via efficient database schema
- Leverages SQL, AWS (RDS, EC2), Java Server Pages, and Tomcat to support reservation-making, admin/employee configuration, schedule browsing, forum functionality, and more

Pink Lemonade   *Fall 2020*

- A JavaScript web app that suggests recipes with ingredients that fight against breast cancer
- One of 11 finalists in Estée Lauder's Hack for Pink competition (selected from 92 submissions)

Where's the File?   *Spring 2020*

- A version control system in C that supports common Git commands such as commit, push, and checkout
- Utilizes sockets, file I/O, and multithreading to allow clients to modify a repository in a remote server

You Are Not Alone   *Spring 2020*

- A JavaScript Chrome extension that detects signs of poor mental health and directs users to resources
- Relies on various Chrome APIs such as storage, tabs, activeTab, contextMenus, and notifications

LEADERSHIP & ACTIVITIES

- **Code for Equity Fellowship Coordinator** | Impact Labs   *Sep 2020 – present*
- **Hackathon Director** | Rutgers Women in Computer Science   *Apr 2020 – present*
- **Girls Who Code Facilitator** | Rutgers Girls Who Code College Loops   *Oct 2018 – present*
- **Political Tech Fellow** | Bluebonnet Data   *Aug 2020 – Nov 2020*