

SAMANTHA L. LEE

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EDUCATION

RUTGERS UNIVERSITY

Sept 2018 - May 2022

- > B.S. in Computer Science
- > B.A. in Cognitive Science
- > **GPA: 3.8 / 4.0**
- > SAS Honors Program
- > Douglass-DIMACS Computer Science Living-Learning Community
- > Coursework:
 - > Data Structures, Computer Architecture, Algorithms, Systems Programming, Principles of Programming, Discrete Structures I & II, Linear Algebra, Calculus I & II, Scientific Research

SKILLS

- > **Languages:**
 - > Java (5+ years), C (3+ years)
 - > Comfortable with Python, PHP, JavaScript, HTML/CSS, JSON
 - > Exposure to SQL, x86 Assembly, MATLAB, Swift
- > **Tools:** AWS (CloudFormation, DynamoDB, EC2, Firehose, IAM, Kinesis, Lambda, S3), Laravel, Node.js, Angular, MongoDB, Express, Bootstrap, Git, Chrome Developer Tools

AWARDS

- > DRC GHC Scholarship (2019)
- > SAS Excellence Award - 2x (2018, 2020)
- > Dean's List (all semesters)

EXPERIENCE

APPLICATION DEVELOPMENT INTERN

Vanguard | May 2020 - present

- > Consume AWS services (DynamoDB, CloudFormation, Kinesis, Lambda, S3, etc.) to assess the magnitude of brokerage accounts protected by retirement standards
- > Fetch several years' worth of data and flag employer contributions in Java and Python
- > Implement Quik (Attunity) change data capture to flag new accounts with contributions

PEER TUTOR

Rutgers University Learning Centers | Sept 2019 - present

- > Tutor upwards of 30 students in Intro to Computer Science and Data Structures
- > Accommodate learning styles to facilitate strong study behaviors
- > Conduct personalized one-on-one sessions to stimulate tutee engagement

RESEARCH ASSISTANT

InfoSeeking Lab | Jan 2019 - Sept 2019

- > Upgraded web app in PHP that helps researchers design and run user studies
- > Built a Chrome Extension that collects browsing and information retrieval data in JavaScript to simplify behavioral research
- > Employed MySQL and Laravel to organize multiple streams of data for easy accessibility
- > Extracted features from browsing data in Python for downstream machine learning

LEADERSHIP

HACKATHON DIRECTOR

Rutgers Women in Computer Science | April 2020 - present

CS111 MENTOR

RU CS Department & Douglass Residential College | Jan 2020 - present

RESEARCH PIPELINE LEAD

Undergrad. Student Association of Computer Scientists | Nov 2019 - present

GIRLS WHO CODE FACILITATOR

Douglass-DIMACS Computing Corps / Girls Who Code | Oct 2018 - present

PROJECTS

VERSION CONTROL SYSTEM

Spring 2020

- > Designed client/server VC system in C
- > Used sockets, multithreading, and file I/O to execute common commands like commit, push, checkout, rollback, etc.

MENTAL HEALTH SUPPORT

Spring 2020

- > Created Chrome extension in JS that scans text for symptoms of mental illness
- > Implemented Chrome APIs such as storage, contextMenus, and notifications

MAZE SOLVER

Spring 2018

- > Constructed an interactive, backtracking maze solver in Java
- > Applied object-oriented programming and recursion to solve generated maze