

Samantha L. Lee

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EDUCATION

Rutgers University | New Brunswick, NJ

Sept 2018 – Expected May 2022

- ❖ B.S. in Computer Science, B.A. in Cognitive Science
- ❖ **GPA: 3.8 / 4.0**
- ❖ School of Arts and Sciences 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

EXPERIENCE

Application Development Intern | Vanguard

May 2020 – July 2020

- ❖ Consume AWS services like DynamoDB, CloudFormation, Kinesis, Lambda, and S3 to establish federal compliance across brokerage accounts
- ❖ Fetch several years' worth of brokerage data and flag employer contributions in Java and Python
- ❖ Implement Quik (Attunity) change data capture to automatically flag new, eligible accounts

Peer Tutor | SAS Honors Program & Rutgers University Learning Centers

Sept 2019 – May 2020

- ❖ Tutor upwards of 30 students in Introduction to Computer Science and Data Structures
- ❖ Analyze student comprehension and accommodate learning styles to facilitate strong study behaviors
- ❖ Conduct personalized one-on-one sessions to stimulate and maintain tutee engagement

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

- ❖ **Languages:**
 - Java (5+ years), C (3+ years)
 - Comfortable with Python, PHP, JavaScript, HTML/CSS, JSON
 - Exposure to SQL, x86 Assembly, MATLAB, Swift
- ❖ **Tools:** AWS, Laravel, Node.js, Bootstrap, Git, Chrome Developer Tools

PROJECTS

Version Control System | Spring 2020

- ❖ Designed client/server version control system in C
- ❖ Used sockets, multithreading, and file I/O to execute common commands (commit, push, checkout, etc.)

Mental Health Support Extension | Spring 2020

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

Infix Expression Evaluator | Spring 2019

- ❖ Coded calculator that solves complex infix expressions that include variables in Java
- ❖ Utilized recursion, stacks, and other data structures to determine and print answers

Maze Solver | Spring 2018

- ❖ Constructed interactive maze solver in Java
- ❖ Applied object-oriented programming and recursive backtracking to solve a maze

LEADERSHIP

- ❖ **Hackathon Director** | Rutgers Women in Computer Science *April 2020 – present*
- ❖ **Research Pipeline Lead** | Undergraduate Student Association of Computer Scientists *Nov 2019 – present*
- ❖ **Girls Who Code Facilitator** | Douglass-DIMACS Computing Corps *Oct 2018 – present*

ACCOMPLISHMENTS

- ❖ **Awards:** DRC GHC Scholarship (2019), SAS Excellence Award – 2x (2018, 2019), Dean's List (all semesters)
- ❖ **Certifications:** AWS Certified Cloud Practitioner