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 - present*

- Consume AWS services like DynamoDB, CloudFormation, Firehose, Kinesis, Lambda, and S3 to assess the magnitude of brokerage accounts protected by federal standards for retirement
- 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 accounts with contributions

Peer Tutor | SAS Honors Program & Rutgers University Learning Centers *Sept 2019 - present*

- 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

- **Programming 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

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*
- **CS111 Mentor** | Rutgers Computer Science Department & Douglass Residential College *Jan 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*

AWARDS

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