

RAHEL SELEMON

📞 703-774-6823 ✉ rahel_selemon@brown.edu 🔗 [linkedin.com/in/rahel-selemon-06165922b](https://www.linkedin.com/in/rahel-selemon-06165922b) 🌐 github.com/RahelSelemon

Education

Brown University

B.S. in Computer Science

Sep. 2022 – May 2026

Providence, R.I.

Thomas Jefferson High School for Science and Technology

Computer Systems Research Lab

Sep. 2018 – May 2022

Alexandria, V.A.

Relevant Coursework

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|--------------------------|--------------------------|---------------------|--------------------------------------|
| • Machine Learning | • Computer Networks | • Linear Algebra | • Software Security and Exploitation |
| • Deep Learning | • Software Engineering | • Abstract Algebra | • Cryptography |
| • Computer Systems | • Operating Systems | • DS and Algorithms | • UI/UX |
| • Statistical Inferences | • Multivariable Calculus | • Data Engineering | |

Experience

USC Viterbi School of Engineering

June 2023 – August 2023

Undergraduate Research Intern

- Assisted in Natural Language Processing research under Robin Jia, working to understanding the capabilities of LLMs and "model memorization". Specifically, I investigated whether LLMs can reproduce word substitutions as watermarks hidden in training data.

Brown University - CSCI0190

August 2023 – December 2023

Undergraduate Teacher's Assistant

- Worked as a TA for Accelerated Introduction to Computer Science under Shriram Krishnamurthi. Graded assignments, held office hours, and taught lecture material.

Brown University - Mosaic+

May 2024 – September 2024

Lead Teacher's Assistant

- Served as the lead instructor and mentor for the Mosaic+ Transition Program – an introductory computer science experience for incoming Freshmen at Brown. I served as a organizer and leader for a team of TAs, developing a hands-on curriculum including a culminating project.

Brown University - CSCI0300

October 2024

Lead Teacher's Assistant

- Worked as a lead TA for Introduction to Computer Systems under Malte Schwarzkopf. Led in course development and creating test suites for projects, graded assignments, held office hours, and taught lecture material. As a leader, I also handled coordination, scheduling, hiring, and other logistical/administrative responsibilities.

Projects

Optimized Autonomous Intersection Manager | *Python*

December 2020

- Simulates the interactions between automated cars at an intersection with no lights/signals while eliminating collisions.
- Repo: <https://github.com/akashpamal/HackTJ7-5>

Curbside Classifier | *Unity, Tensorflow, Google Sheets API*

April 2021

- Software that recognizes curbside-pickup cars as they enter the lot without need for any customer intervention.
- Identifies the car and matches it with the online order. It notifies employees of the order number and the car's location.
- Repo: <https://github.com/JackBlair87/CurbsideClassifier>

Haptic Glove to Interpret ASL | *Arduino*

April 2022

- Robotic glove that collects data from its wearer's finger movements to interpret ASL letters being signed by the user and display their translations.
- Repo: <https://github.com/Elena-Rangelov/vrgloves>

Spot-A-Match | *Java, TypeScript, React, Spotify API*

December 2023

- Retrieves Spotify listening data, calculates statistics, and displays analytics from users of our service to match them to other users based on similarities.
- Repo: <https://github.com/cs0320-f23/term-project-rukubay-rselemon-sksitara-dlauerma>

Technical Skills

Languages: Python, Java, C/C++, Golang, Rust, HTML/CSS, JavaScript, TypeScript, SQL, Racket/LISP, object oriented and functional programming experience

Technologies/Frameworks: Linux/Unix, Windows, MacOS, Tensorflow/Keras, OpenCV, React, Excel, MongoDB, Spark, Arduino, Autodesk Fusion