

# Sarathi Mathuria

[sarthimathuria.com](https://sarthimathuria.com)

✉ [sarthimathuria@utexas.edu](mailto:sarthimathuria@utexas.edu) | [www.linkedin.com/in/sarthimathuria](https://www.linkedin.com/in/sarthimathuria)

## EDUCATION

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### University of Texas at Austin

*BSA in Computer Science, Minor in Business*

GPA: 3.87

May 2024

Austin, TX

## SKILLS

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**Languages** : Java, R; *Familiar with*: C

**Tools/Platforms/Frameworks** : React.js, HTML, CSS, Git

## EXPERIENCE

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### Congressional Campaign

*Data Analyst Intern*

Summer 2020

Nashville, TN

- Implemented predictive modeling to data sets using linear regression to measure progress for the campaign.
- Created relationships between different databases and raw data sets to identify voters to target and allocate resources to.
- *R, Excel*

### Rice University STEM Department

*Data Analytics Research Intern*

Summer 2019

Houston, TX

- Conducted interdisciplinary research combining statistical mechanics and Bayesian statistical reasoning with computer data simulations.
- *Java*

## PROJECTS

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[github.com/sarathi-mathuria](https://github.com/sarathi-mathuria)

### Huffman Compressor

- Built a lossless data compression program that uses binary trees, priority queues, and hash maps.
- Compressed and decompressed files using the standard Huffman algorithm for encoding and decoding.

### Sorting Visualizer

- Created an application for visualizing 5 sorting algorithms.
- Visualize it here: <https://sarathi-mathuria.github.io/Sorting-Visualizer/>

### Evil Hangman

- Developed a program that cheats at the classic game Hangman.
- Implemented 3 levels of difficulty from 3 algorithms that delay choosing a word until the end of the game.