

# Md Reazul Islam

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## Education

### Georgia State University

Atlanta, GA

*B.S. in Computer Science, Minor in Mathematics*

*August 2019 - May 2022*

CGPA: 4.00

Related Coursework: Data Structures, Design and Analysis of Algorithms, Programming Language Concepts, Software Engineering, Operating Systems, Data Mining, Machine Learning, Graph Theory, Numerical Analysis, Database Systems

## Experience

### NCR Corporation

Atlanta, GA

*Software Engineer I*

*July 2022 - Present*

*Software Engineer Intern*

*May 2021 - August 2021*

- Developed a widget with React.js leveraging NCR's APIs as demo application for developers portal
- Published the widget as an npm package at <https://www.npmjs.com/package/fe-demo-widget> for ease of use
- Implemented Digital Banking APIs in Node.js and Angular for clients to reference

### Department of Computer Science, Georgia State University

Atlanta, GA

*Undergraduate Teaching Assistant*

*August 2020 - April 2022*

- Graded assignments, quizzes, proctored exams, held office hours for 100+ students in CSC 1302 (Prin. of CS II)

*Undergraduate Research Assistant*

*September 2019 - April 2022*

- Analyzed high-dimensional time-series outliers on solar flare data to investigate effects on flare prediction models
- Assisted to build a live 360° video streaming prototype and made scripts to collect various metrics during stream

### Publications:

- J. Wen, **M. R. Islam**, A. Ahmadzadeh, and R. A. Angryk. "Improving Solar Flare Prediction by Time Series Outlier Detection" in *International Conference on Artificial Intelligence and Soft Computing*, Springer 2022. [Link](#)
- J. Yi, **M. R. Islam**, S. Aggarwal, D. Koutsonikolas, Y. C. Hu, and Z. Yan. "An Analysis of Delay in Live 360° Video Streaming Systems." In *Proceedings of the 28th ACM International Conference on Multimedia* 2020. [Link](#)

## Projects

**ReazDonor** | *Python, Flask, HTML, CSS* [github.com/mdreazul/ReazDonor](https://github.com/mdreazul/ReazDonor)

- Developed a full-stack web application using Flask where donors can find and donate to organizations
- Implemented login functionality for donors and organizations and stored the information in SQLite database
- Implemented logic for contact page using GET and POST requests by sending automated emails for each message

**Lambda Calculus Interpreter** | *Python, PLY*

- Developed a lexer and parser using PLY to tokenize and parse expressions
- Implemented alpha equivalence, beta-reduction, free-variable calculation and build syntax trees
- Used all functions to evaluate the trees and calculate the value of an expression

## Technical Skills

**Languages:** Java, Python, C/C++, JavaScript, HTML/CSS, Scala, MATLAB, R

**Frameworks:** React, Next.js, Node.js, Angular

**Developer Tools:** Git, Google Cloud Platform, VS Code, Visual Studio

**Libraries:** Pandas, NumPy, Matplotlib

## Honors and Awards

**Honors College NCR Award for Excellence in CS & CIS**, Georgia State University

*May 2022*

**Hardware Hack and Data Challenge Winner**, HackGSU 2022

*March 2022*

**Undergraduate Research Award**, 2022 Department of Computer Science Awards

*March 2022*

**Campus Atlanta Scholarship**, Georgia State University

*August 2020*