# Sara Fares

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## Education

**Georgetown University | Washington, DC | August 2016 – May 2020**

*B.A. Computer Science, B.A. Mathematics | Georgetown College*

- **Cumulative GPA:** 3.76/4.0
- **Relevant Coursework:** Image Processing, Algorithms, Data Mining, Information Retrieval, Data Structures, Databases, Advanced Programming, Data Visualization and Graphics, Proofs and Problem Solving, Linear Algebra, Multivariable Calculus, Mathematical Statistics

## Work Experience

**Peloton Interactive | Washington, DC | June 2019 – December 2019**

*Software Engineering Intern | Backend Data and Performance Team*

- Created various data pipelines, using AWS Glue along with other Amazon resources
- Created a CI pipeline for our internal python packages along with other developer productivity tools
- Learned the infrastructure and worked on fixes for our in-house load testing tool

**Students of Georgetown, Inc. | Washington, DC | September 2017 – Present**

*Software Developer | IT Department*

- Completed 100+ hours of work in Python within a Django web framework on the employee access website, fixing over 20 bugs and creating 10+ new features, including sexual assault and bias reporting forms and timeclock logs

**Neurological Research Institute at Texas Children's Hospital | Houston, TX | June 2017 – July 2017**

*Data Analyst/Programmer | Liu Bioinformatics Lab*

- Created 4 Python scripts to run through 1,000,000+ lines of protein coding RNA data and reduced results of proteins of interest by 95%, resulting in higher accuracy and exponentially smaller list of RAN coding proteins to further research

## Selected Projects

**Search Engine | March 2019**

- A python-based search engine built for Information Retrieval course (graduate level course)
- Utilizes a combination of 3 retrieval models (including Language Model) as well as 4 indices (stem, phrase, single term, and positional) to retrieve results for user queries

**Data Mining Suite: Neural Network, Naïve Bayes, and Association Rule Classifiers | March 2019**

- A suite of tools built for Data Mining course to analyze datasets and return predictive results

**An Exploration of Education in Latin America | April 2018**

- A shiny application (written in R) utilizing various graphs to show categorical variables like gender, age, and country as factors in influencing metrics on education rates (literacy, attendance, and completion rates)

**Dating Website | April 2018**

- A dating website created for Intro to Database using SQL, flask, and Python to get input on 15 attributes including preferred hair and eye color and hobbies/interests that would then be used for matching within the database of other users

## Leadership Experience

**Georgetown Disruptive Tech | Washington, DC | July 2019 – Present**

*Co-Founder, Vice President*

- Working to promote understanding of the tech space and emerging trends on Georgetown's campus
- Designing and leading workshops to teach the basics of R, Python, and technical interviews

**Lebanese Students Association | Washington, DC | January 2017– Present**

*President | Executive Board*

- Increased attendance at events from an average of 10-15 to around 20-30 per event by improving social media presence of the organization as well as emails and flyers around campus

**Georgetown University Arab Society | Washington, DC | August 2017 – Present**

*Vice President | Executive Board*

- Improved board satisfaction and retention rate using 3 different surveys per semester to gage what needed to be changed, moving retention rate to 90% as of this semester (as of August 2017 it was 50%)

## Extracurriculars and Skills

- Talents and hobbies: boxing, baking, cooking, and photography
- Technical skills: proficient in Python, C++, and SQL; familiar with Java, HTML, CSS, R; experienced with Django, Shopify, Photoshop, and Git