

**James Doucette**  
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## EDUCATION

**The University of Chicago**, Chicago, IL

**Degree:** *Bachelor of Science in Math and Computer Science*

Expected Graduation June 2022

**GPA:** 3.73/4.00

Deans List

Relevant Courses: Databases, Computer Architecture, Discrete Math, Algorithms, Data Science, Probability, Linear Algebra, Accelerate Real Analysis

## EXPERIENCE

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**Phoenix Tutoring**, Fall 2020 - Winter 2021

- Tutored local students in Math, done through University of Chicago

**Adapt Ready**, Online, Intern, Summer 2020

- Got webpage source code and parsed page for desired data and links
- Set up system to automatically download SEC XBRL data
- Extracted useful information from XBRL with XML parser and NER

**Everest Reinsurance Group**, Liberty Corner NJ, Intern, Summer 2019

- Made script to pull automatically stock prices from internet and calculate return and beta
- Made script to pull many parameters (income, home prices, unemployment, home ownership rate) from ACS database and other data (country latitude/longitude, interest rates) at county level
- Approximated data where not available, and estimated risk of mortgage default
- Made visualization of results in Power BI and presented

## PROJECTS

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**Spotify Unlocked** (<https://spotify-unlocked.herokuapp.com/>)

- Accesses and presents data on songs, artists and users from Spotify API
- Computes some additional data: chords, extra user stats and recommendations

**Personal Website** (<https://jmdoucette.github.io/>)

- Smaller Projects can be viewed here:
- Recurrence Relation Solver
- Handwritten Digit Classifier
- Data Structure Implementations

## SKILLS AND INTERESTS

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### Programming Languages:

Proficient with Python and C

Experience with R, Racket (functional language), Ruby, Rust, SQL

### Libraries/Frameworks:

Ruby on Rails, Numpy, Pandas, Tensorflow Keras

### Other Technologies:

Git, PostgreSQL

### Interests:

Running, weightlifting, guitar