

# Rafael Singer

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## Education

### Boston College – Morrissey College of Arts and Sciences

Expected Graduation: May 2025

*Bachelor of Science in Computer Science, Minors in Mathematics and Finance*

GPA: 3.85/4.00

- Honors: 4x Dean's List First Honor, 4x Bowman Scholar
- Relevant Coursework: Computer Science II, Computer Systems, Computer Organization, Multivariable Calculus

## Work

### Amazon

New York City, NY

*Software Development Engineer Intern*

May 2023 – August 2023

- Shipped 10+ high-impact changes to Amazon's internal financial analytics service, enhancing both React frontend and Java backend for tens of thousands of users
- Built frontend components, resolved backend API issues, repaired AWS infrastructure, and fixed bugs, improving overall user experience

### Morrissey College of Arts and Sciences

Chestnut Hill, MA

*Undergraduate Teaching Assistant*

August 2023 – Present

- Hold weekly office hours, lead lab sections, and grade assignments for a 300+ student Java data structures course

### Tendies

New York City, NY

*Web Developer Intern (Remote)*

May 2022 – August 2022

- Assisted in the development of the Tendies website from the mobile application using Next.js
- Designed and launched a portfolio competition with two high-profile financial influencers

### Massachusetts Trial Court

Lawrence, MA

*Court Service Center Intern*

Jan 2022 – May 2022

- Engaged with 600+ low-income litigants; improved and modernized internal data management systems

## Projects

**Grader Days** | *React, JavaScript, CSS, Firebase, Node.js* | [graderdays.com](https://graderdays.com)

July 2022

- Developed a full-stack web app that allows people to see the progression of their days over time

**Review Blog** | *React, TypeScript, Sass, GraphQL, Node.js* | [rafaelsinger.com/reviews](https://rafaelsinger.com/reviews)

June 2022

- Built custom full-stack website for media reviews, delivering content through Hygraph, GraphQL, and Node.js

**Covid Map** | *React, Leaflet, CSS, HTML* | [covid-map.com](https://covid-map.com)

April 2022

- Created choropleth map of COVID-19 data in the U.S. by utilizing CDC APIs with Node.js to fetch real-time data

## Leadership & Research

### Data Within Reach Lab

Chestnut Hill, MA

*Undergraduate Research Assistant*

June 2023 – Present

- Building a vector database enhancing the graphical perception capabilities of LLMs with Prof. Nam Wook Kim

### Boston College Computer Science Society

Chestnut Hill, MA

*President*

Aug 2022 – Present

- Spearheaded comprehensive redesign and development of two club websites using React and JavaScript
- Orchestrated BC's annual hackathon, managing sponsorship, logistics, and promotions for over 200 participants

### Research Program on Children and Adversity

Chestnut Hill, MA

*Software Developer*

Oct 2022 – May 2023

- Architected React Native app assisting hundreds of Afghan refugees adjust to life in the United States
- Shipped over 5 high-impact features from text-to-speech functionality to localization support for Dari translations