

# Rafael Singer

☎ (818) 422-7757 | ✉ singerrc@bc.edu | 🔗 LinkedIn | 🐙 GitHub | 📁 Portfolio

## EDUCATION

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

Expected Graduation: May 2025

*Bachelor of Science in Computer Science, Minor in Mathematics*

GPA: 3.85/4.00

**Awards:** Dean's Scholar, Dean's List First Honor (6x)

**Involvement:** President of Computer Science Society, Stride Lead, CS Department Teaching Assistant

**Relevant Coursework:** Computer Systems, Computer Networks, Computer Organization, Operating Systems, Software Engineering, Multivariable Calculus, Linear Algebra, Deep Learning

## SKILLS

**Languages:** JavaScript, TypeScript, Java, Python, C, SQL, Ruby, Haskell

**Technologies:** Node, React, Ruby on Rails, React Native, NestJS, Django, PostgreSQL, MongoDB, Firebase, Git, Docker, AWS, ElasticSearch, Pinecone

## EXPERIENCE

### Perchwell

New York City, NY

*Software Engineer Intern*

May 2024 – Nov 2024

- Led development of capstone project: Dockerized LLM search microservice using Pinecone and ElasticSearch; impressed executives, leading to extended part-time role to transition project to production.
- Managed project as PM, designer, and architect; drove requirements gathering and technical design for high-impact feature delivery.
- Implemented 25+ production features and fixed critical bugs while onboarding 3 new MLS systems.
- Collaborated cross-functionally to iterate on features and incorporate user feedback.

### M7 Health

New York City, NY

*Software Engineer Intern*

Jan 2024 – May 2024

- Delivered 100+ fullstack production changes working remotely part-time, facilitating the integration of nursing application to 3+ new hospital units.
- Developed and deployed highly requested Bulk Open Shift Creation, leading to a 30% adoption rate within the first month of release.
- Spearheaded design and implementation of a robust testing suite using Playwright, Vitest, and React Testing Library, enhancing code reliability.

### Data Within Reach Lab

Chestnut Hill, MA

*Undergraduate Research Fellow*

Aug 2023 – Dec 2023

- Worked with Professor Nam Wook Kim on retrieval-augmented generation (RAG) with LLMs to improve data visualization guidelines.
- Developed functional RAG prototype using Pinecone, LangChain, and the OpenAI API on 50+ research papers.

### Amazon

New York City, NY

*Software Development Engineer Intern*

May 2023 – Aug 2023

- Shipped 15+ high-impact production changes to Amazon's internal business analytics service, benefiting 90% of all Amazon business and finance teams by enhancing service efficiency
- Created frontend React components, backend Java APIs, and implemented AWS DynamoDB infrastructure for new service highlighting operational cost-saving opportunities for 3,000+ businesses
- Collaborated with 3+ internal data teams to integrate over 5 new performance metrics, providing enhanced business analytics capabilities across multiple departments.

## PROJECTS

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

July 2022

- Custom full-stack website for movies, music, TV, and book reviews.

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

June 2022

- Full-stack web application that allows people to see the progression of their days over time.