

Jacob Shapiro

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Education

AMHERST COLLEGE, Amherst, MA

Expected May 2022

- Bachelor of Arts in Computer Science
- GPA: 3.96/4.00

Work Experience

Microsoft, Redmond, WA

June 2021-August 2021

Software Engineer

- Incoming Software Engineer in Azure OneFleet Efficiency group

Software Engineer Intern

- Modeled and measured the efficiency of fail-in-place servers in Azure allocation simulator
- Collaborated with Azure-Compute team and Microsoft Research to develop new server repair policies to maximize efficiency in Azure server clusters

Oracle Corporation, Redwood Shores, CA

May 2020-August 2020

Software Engineer Intern

- Designed and developed machine learning models implementing natural language processing to translate informal user input into formal Elastic Search queries for Ask Oracle platform

Amherst College Department of Computer Science, Amherst, MA

March 2019-Present

Computer Science Teaching Assistant, McGeoch Fellow

- As McGeoch Fellow, work with Data Structures (Fall 2021) and Computer Systems (Fall 2020) professors to prepare and grade projects, assist in lab sessions, respond to student questions about course material over slack, and provide academic support for 40+ students taking the course
- As teaching assistant, assist students in introductory computer science during office-hours with an average of 10 students per session and lab sessions of 20 students

Computer Science Peer-Tutor

- Selected by department chair to tutor individual students in introductory-level computer science
- Developed individually tailored tools and methods to reinforce materials taught in class

Relevant Computer Science Experience

- Languages:
 - Proficient: Java, Python, C#
 - Familiar: Haskell, Prolog, SQL, C, and R
- Coursework: Data Structures, Algorithms, Machine Learning, Computer Systems, Computer Security, Programming Language Paradigms, Computer Architecture, Artificial Intelligence, Object Oriented Programming I & II, Probability and Computing, Multi-Variable Calculus, Linear Algebra, Statistics

Leadership and Activities

Amherst College Hillel

September 2018-Present

President (February 2021-August 2021)

- Organize and lead club operations and manage budget of approximately \$10,000 dollars

Executive Board Member (September 2018-Present)

- Work with board members to chart and implement goals and strategies
- Organize weekly shabbat dinners for 60 people and 3-4 holiday events per semester for Amherst College community

Skills and Interests

- Intermediate Spanish, written and spoken
- Member of Amherst College Ultimate Frisbee team and Amherst Poker Club
- Staff Writer for *The Amherst Student* newspaper