

# Harlene Kaur Samra

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## Education

### Carnegie Mellon University

BACHELOR OF SCIENCE IN COMPUTER SCIENCE, GPA: 3.49/4.0

Pittsburgh, PA

August 2017 - May 2021

- **Dean's List:** Fall 2018, Spring 2019
- **Inaugural Scott Krulcik Scholarship:** Merit-based award, Fall 2019
- **Gelfand Student Educational Outreach Award:** Spring 2020
- **Classes:** Database Systems, Artificial Intelligence, Software Security and Privacy, Natural Language Processing, Machine Learning, Data Structures and Algorithms

## Experience

### Amazon - Alexa News

SOFTWARE DEVELOPMENT ENGINEERING INTERN

Seattle, WA

May. 2019 - Aug. 2019

- Created a Ruby on Rails website from scratch to be used internally by other teams and Product Managers in my organization.
- Leveraged the use of permissions and authentication systems to limit who could access parts of the website.
- Integrated with multiple RESTful services sending GET and POST requests.

### Carnegie Mellon School of Computer Science

TEACHING ASSISTANT

Pittsburgh, PA

August 2018 - present

- **Classes:**
  - Mathematical Foundations for Computer Science (Fall 2018, Fall 2019 - Head TA)
  - Functional Programming (Spring 2019)
  - Artificial Intelligence and Problem Solving (Spring 2020)
- Lead weekly recitations and office hours to provide supplemental instruction and reinforce important concepts.
- Helped to develop materials for homeworks and recitations as well as work on course infrastructure.

### Carnegie Mellon Computer Science Academy

CONTENT DEVELOPER

Pittsburgh, PA

May. 2018 - present

- Lead a curriculum team for AP Computer Science Principles. (Spring 2019, Fall 2019, Spring 2020)
- Worked on the development of CS2, an applications course. (Fall 2019, Spring 2020)
- Created and revised content for the CS1 python curriculum. (Summer 2018, Fall 2018)

## Skills

**Languages** Python, C, C++, Java, Ruby, MySQL, HTML, CSS, JavaScript/JQuery, SML

**Tools/Frameworks** LaTeX, Git, Unix/Linux, Rails

## Activities

### Teknowledge

- Organized students from CMU to teach python coding as part of an after school club for middle school aged students.
- Worked on and developed curriculum for different programs.

### School of Computer Science Tour Guide

- Gave tours of the CS building and participated in student panels for prospective students and their families.

### SCS Day Volunteer

- Volunteered to help organize the annual SCS Day event with weekly meetings leading up to the event as well as day-of setup and cleanup.

### Women@SCS Volunteer

- Help plan faculty-student lunch events and take pictures at various W@SCS events.

## Projects

### Question Answering System - Python

- Developed as part of a semester long group project in my Natural Language Processing class using libraries such as nltk and spacy
- **Question creation:** Takes in Wikipedia article and a number N and outputs N questions about the article.
- **Question answering:** Takes in Wikipedia article, and N questions and outputs N answers based on the article.