

# Harlene Kaur Samra

Address: 4500 Centre Ave.  
Pittsburgh, PA 15213

☎ (203) 219-3525 | ✉ hsamra@andrew.cmu.edu | 🏠 harlenesamra.github.io | 🌐 harlenesamra | in harlene-samra

## Education

### Carnegie Mellon University

BACHELOR OF SCIENCE IN COMPUTER SCIENCE, GPA: 3.57

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
- **Classwork:** Speech Processing, Database Systems, AI/ML, Natural Language Processing, Data Structures and Algorithms

## Experience

### Amazon - Alexa News - Quick Questions

Virtual

SOFTWARE DEVELOPMENT ENGINEERING INTERN

May 2020 - Aug. 2020

- Created a REACT based website to display questions to celebrities, allowing labeling and approving/rejecting of questions
- Leveraged the use of permissions and authentication systems to limit who could access the website
- Created and integrated multiple RESTful services using AWS Lambda, API Gateway, DynamoDB, and S3

### Amazon - Alexa News - Alexa Personalized News

Seattle, WA

SOFTWARE DEVELOPMENT ENGINEERING INTERN

May 2019 - August 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

Pittsburgh, PA

TEACHING ASSISTANT

August 2018 - present

- **Classes:**
  - Mathematical Foundations for Computer Science (Fall 2018, Fall 2019 - Head TA, Fall 2020)
  - Artificial Intelligence and Problem Solving (Spring 2020, Fall 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

Pittsburgh, PA

CONTENT DEVELOPER

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

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

## 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.