




# Sneha Naren

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## EDUCATION

### University of California, San Diego B.S, Cognitive Science

Specialization: Machine Learning and  
Neural Computation

Minor: **Computer Science**

GPA: 3.5 | Graduating June 2020

## SKILLS

**Languages:** Java, C++, React JS, HTML,  
CSS, JavaScript, Python

**Relevant Courses:** Probability and  
Statistics, Advanced Data Structures,  
Deep Learning and Natural Language,  
Intro to Machine Learning I/II

## PROJECTS

### Color to Song Recommender System

Created a program to recommend songs to  
a user based on the color chosen. This  
program was written in Python, with  
music data gathered from the Spotify API.

### Autocomplete Program

Built an autocomplete program in C++  
utilizing multiway-tries, which was  
optimized to 200% faster than the brute  
force approach.

### Gradescope Grading Script

Wrote various grading scripts used to  
grade over 150 assignments weekly in  
UCSD's Introduction to Java course. The  
scripts were written in Python and run on  
the Gradescope website.

## ACTIVITIES

Musician's Club · Women in Tech ·  
Society of Women Engineers

## EXPERIENCE

### American Express

New York, NY

*Software Engineer Intern*

June, 2019 – Present

- Working closely with project and engineering managers in an Agile led team
- Designed the first program to detect tax-deductible transactions that uses NLP and ensemble learning
- Created a synthetic dataset to assist in model development and evaluation
- Implemented using Python (Numpy, Scipy and Scikit-learn) and Flask
- Built the front-end component in React, which is expected to go on the company's most trafficked website, attracting millions of users daily.

### UCSD CSE Department

San Diego, CA

*Head Tutor*

April 2018 – Present

- Tutor over 400 students cumulatively in two of UCSD's most popular computer science courses, covering diverse programming concepts such as data structures, bit manipulation and essential Java syntax
- Lead discussion sessions to help students visualize and solidify their knowledge of relevant course material
- Aid students in their weekly programming assignments to complete projects and achieve code functionality
- Collaborate with other tutors to create weekly lab projects, thereby writing both starter code and reference solutions
- Work actively to debug students' code virtually through Piazza, an online discussion board

### Cognitive Development Lab

San Diego, CA

*Research Student*

April 2018 – June 2018

- Conducted EEG experiments to test for cognitive and social developmental trends in infants and children.
- Coded and analyzed over 50 hours of experiment footage using behavioral coding techniques in ELAN
- Spearheaded a data management project consisting of encoding timestamps, trials and file paths on Excel, saving lab members multiple hours weekly on data analysis and minimizing the possibility of untraceable data and trials.