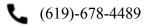
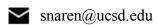
# Sneha Naren

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snehanaren.github.io

## **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 June, 2019 – Present

Software Engineer Intern

- 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**

Head Tutor

San Diego, CA 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 April 2018 – June 2018

Research Student

- 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.