Tanji Saraf-Chávez

1671 Arch Street Apt 8, Berkeley CA , 94709 | (669)253-3901 | tsarafchavez@berkeley.edu
https://tsarafchavez.github.io/

EDUCATION

University of California, Berkeley *Expected Fall 2019*

Computer Science, Cognitive Science (B.A.)

- Relevant Coursework (*In progress):
  *Structure & Interpretation of Computer Programs, Data Structures & Algorithms, *Computer Architecture, Linear Algebra & Differential Equations, Discrete Math & Probability, Foundations of Data Science, Ruby on Rails**

SKILLS

Languages: Java, Python, C*, Ruby*, SQLite, HTML, CSS, Scheme, Snap!
Frameworks/Software: Git, IntelliJ, Ruby on Rails*

EXPERIENCE

Software Engineering Intern *May 2017-August 2017*

SN&N Electronics, Inc, San Jose

- Wrote Java and Python scripts to control motors over a serial port for a DNA analysis instrument.

Web Developer *August 2017-Current*

Society of Women Engineers Website Committee, University of California, Berkeley

- Constructed, designed and update website for the Society of Women Engineers chapter at UC Berkeley using HTML5 and CSS3.

Lab Assistant *January 2017-May 2017*

The Structure and Interpretation of Computer Programs, UC Berkeley College of Engineering

- Helped in labs and office hours with difficult Python programming projects and assisted students understand computer science concepts such as recursion and object-orientated programming

PROJECTS

Database, Java

- Implemented interpreter for a relational database management system in Java from scratch that parsed user input for commands and accordingly modified database. Tested with JUnit.

BearMaps, Java

- Developed backend for mapping-based web application in Java. Supports zooming and finding shortest paths between two locations using A* search.

CPU

- Created a 32-but 2 cycle processor based on RISC-V

KNN Classifier, Python

- Implemented a KNN classifier with a dataset of various songs to cluster the data points into various music genres

EXTRACURRICULARS

CS Scholars

UC Berkeley College of Engineering

- Selected based on a competitive application process. Program emphasizes promoting diversity in the field of computer science.

Society of Women Engineers

- Help organize and plan a series of events with members of industry to equip engineering students with the knowledge and tools to secure a job or internship