Arjun Srinivasan
727-252-4303   arjunsrinivasan1997@gmail.com

Education
- University of California, Berkeley (B.A Computer Science)   May 2020

Relevant Coursework
- CS 61A - The Structure and Interpretation of Computer Programs, CS 61B – Data Structures, Math 54 – Linear Algebra

Work Experience
Cuddle Cub - Chief Technology Officer   September 2016-Present
- Designed and built a prototype for a sleep tracking and training teddy bear for children
- Wrote all of the code for the prototype, allowing it to receive Bluetooth commands and react based on the command that was received
- Developed an algorithm that takes in accelerometer data and estimates how much sleep a child has had during the night

Lockheed Martin - Intern   June 2016-August 2016, June 2017-August 2017
- Developed a multilayered neural network that analyzed a drawing of a cable, and a parts list to determine how much money the cable would cost to produce. This network had achieved 80% accuracy at the end of August 2017.
- Used and applied VBA code and macros in Microsoft Excel to create new spreadsheets that had automated many tasks, making the manufacturing process 10% more efficient
- Automated the collection of data and analyzed these data sets in order to give supervisors more detailed information regarding the scheduling attainment and efficiency of the plant

Berkeley Anova - Technology Curriculum Member   August 2016-Present
- Taught JavaScript and Java to local high schoolers and helped to debug student programs
- Developed and created a lesson plan with interactive JavaScript and Java programs for each lesson
- Wrote test questions for students, and explained the optimal solutions to these questions after the tests were given
- Used JavaScript, HTML and CSS to redesign and maintain website for the club

Programming Projects
- Python
  - Tower Defense game, similar to Plants vs Zombies
  - A visualization of restaurant ratings using Yelp data that predicts what rating a user would give for a restaurant based on the previous ratings by that user
  - Interpreter for the Scheme language
- Java
  - SQL interpreter that supports loading, saving, joining of tables, along with selection based on column expressions
  - Web based mapping application that supports routing between two points, autocomplete prefix matching, and drag and zoom operations
  - Motion simulator that simulates the movement of multiple objects in a plane, accounting for gravitational forces on each object.
- HTML/CSS/JavaScript
  - Used for the development and maintenance of my personal website (https://arjunsrinivasan1997.github.io)and for the Berkeley Anova website (https://www.berkeleyanova.org/)
  - Used JavaScript to build multiple Skills for the Amazon Alexa Platform