**Home Page:**

Hello, I am Kishan Rajasekhar. I am currently an undergraduate computer science major at the University of California, Irvine (UCI). I am from San Jose, California. This is one of the cities in the Silicon Valley, so naturally, math and computing is heavily emphasized in the schools in this area. I went to Evergreen Valley High School, where I took my first programming class. It was AP Computer Science, and I coded in java using the Eclipse IDE. My goal is to learn many skills in the field of computing. In UCI, I am in the school of Information and Computer Science (ICS). I coded in Python throughout my first year, using IDLE and Eclipse. In my second year, I learned about data structures (in C++) and took an algorithms course (BFS, DFS, dynamic programming, etc). This year, I will take some upper division classes.

**Experience:**

**Southern California Earthquake Center (SCEC):**

My role for this internship was to help develop SCEC-VDO, which stands for Southern California Earthquake Center Virtual Display of Objects. SCEC-VDO is an opensource 3D software which helps users visualize different sets of earthquake data, such as faults, earthquake sequences, hazard maps, and shake maps. The software is written in Java. During my internship, a new version of SCEC-VDO was under development. This version used the Visualization Toolkit (vtk) package. The previous version was supported by Java-3D, which is now outdated. My job was to port over functionalities from the old version and program new features on top of that. I primarily focused on developing shake maps. I added features that allow users to import a map from the Unites States Geological Survey (USGS) website or load custom shake map files made my SCEC’s shake map generator. Users can also set the transparency of each map. I also worked on allowing users to save their projects, which I did by writing the values of class attributes to xml files (and then reading from the xml file to load that data).

**ICS32:** I was a tutor for ICS 32. In this course, the students use methods from the python standard library, such as [pathlib](https://docs.python.org/3/library/filesys.html) for file and directory access and [sockets](https://docs.python.org/3/library/ipc.html) for communication and networking with servers. I clarify the instructions for the students and give suggestions on how to begin the assignment. I also help them with debugging by reading through their code and explaining my thought process on how to approach the problem.

**ICS31:** I was a tutor for the introductory computer science class (ICS 31) during the winter quarter of 2015 (January to March). I worked three days a week (2 hours each day) for ten weeks, and I helped about 5-8 students a session. The students were learning python, and most of them were in other majors and took this class and a g-ed. Since these students never programmed before, I had to clearly explain technical concepts to them (primitive data types, operators, etc) and really motivate them. It was a fun experience, and I may do it again.

**Activities:**

**Cross Country:** I have been running for three years. I ran for the team in high school. I was in varsity my junior and senior year, though I was just decent. My best 5k time was 17:38, and my best mile time is 4:58. There are a lot of athletes that are faster than that. I was the team captain in my senior year. I led the team in warm-ups and motivated new athletes. Now, I am trying out other activities, like swimming and weight lifting. I still run, but not as often as I did in high school. If I decide to join the running club, then I may start training for races again.