**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 just finished my first year at this university. I coded in Python throughout my first year, using IDLE and Eclipse. This year, I am learning C++ and data structures and will take some upper division courses.

**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 a 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 The previous version was supported by Java-3D, which is now outdated.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.