

# KADHIRASH SIVAKUMAR

[kadhirash@gmail.com](mailto:kadhirash@gmail.com) | [kadhirash.github.io](https://github.com/kadhirash) | (408)759-0836 | Cupertino, CA 95014 | [linkedin.com/in/kadhirash/](https://www.linkedin.com/in/kadhirash/)

Education	<b>University of California, Riverside</b> Bachelor of Science in Computer Science, Major GPA: <b>3.16</b> <b>Relevant Coursework:</b> Concurrent Programming and Parallel Systems   Data Analysis Methods   Database Management Systems   Information Retrieval   Intro. to Numerical Analysis   Optimization	<i>Expected Jun. 2020</i>
Skills & Interests	<b>Most Experience with:</b> C/C++   Java   Python <b>Comfortable with:</b> HTML   CSS   JavaScript   Matlab   Git   Latex   Scrappy   pandas <b>Interests:</b> Basketball & Tennis   Hiking   Chess   Helping people   Creating apps	
Work Experience	<b>Sivdha Consulting, LLC - Intern</b> <ul style="list-style-type: none"><li>Designed and developed a website (<b>HTML/CSS</b>) by allowing for the company to use the website to manage clients.</li><li>Analyzed processes, data, and documented suggestions to also improve the productivity of the company.</li></ul> <b>Glowiz Inc. - Intern</b> <ul style="list-style-type: none"><li>Restructured the UI (<b>HTML/CSS</b>) for the website of the company as seen by the increased user activity on the website of ~20% by making navigation on the website easier.</li><li>Learned about the different types of IT consulting the company utilized, conducted, and handled on a day-to-day basis.</li></ul> <b>Hands4Others - Intern</b> <ul style="list-style-type: none"><li>Analyzed a multitude of campaigns created for Hands4Others by using Google Adwords.</li><li>Monitored website traffic around the world and noticed a 10% increase in the United States by creating a Coffee4Others campaign.</li><li>Recorded data of potential users for the Hands4Others campaigns shown by over 100 users visiting the website by analyzing their time of visit and geolocation.</li></ul>	<i>Jul. 2019 - Sept. 2019</i>  <i>Jun. 2015 - Dec. 2015</i>  <i>Jun. 2015 - Dec. 2015</i>
Projects	<b>Global Warming EDA Project</b> <ul style="list-style-type: none"><li>Analyze data sets of climate trends across various area and compare them to predictions from leading meteorologists and global warming experts.</li><li>Split into three phases of extracting (<b>Scrappy</b>) the datasets, cleaning the data sets, and performing EDA (<b>pandas</b>).</li></ul> <b>Compiler</b> <ul style="list-style-type: none"><li>Built a compiler (<b>C</b>) for the "mini-L" language.</li><li>Separated it into three phases: Lexical Analyzer using <i>flex</i>, Parser using <i>bison</i>, and a Code Generator.</li></ul> <b>Twitter Crawler</b> <ul style="list-style-type: none"><li>Made a twitter crawler (<b>Python</b>) that retrieves tweets around Riverside based on the query and outputs the relevant information such as username, tweet, and location.</li><li>Furthermore, it gave "scores" to tweets to display more relevant tweets first that are related to the user's search query by implementing a <b>BM25 algorithm</b>.</li></ul> <b>Command Shell Software Construction</b> <ul style="list-style-type: none"><li>Created a command shell emulator (<b>C++/Git</b>) that allowed the user to execute commands using ";, &amp;&amp;,   " by using a composite design pattern.</li></ul>	<i>Winter 2020</i>  <i>Summer 2019</i>  <i>Spring 2019</i>  <i>Winter 2019</i>
Activities	<b>Undergraduate Research - Researcher</b> <ul style="list-style-type: none"><li>Mathematically modeling the CARRGO model in CAR-T cells in glioblastoma measured by Lotka-Volterra predator-prey equations by writing scripts and functions in <b>Matlab</b>.</li><li>Currently working on optimizing the model to find the best time and percentage for CAR-T cell therapy in glioblastoma by altering the data.</li></ul> <b>Theta Tau: Professional Engineering Fraternity - Scribe</b> <ul style="list-style-type: none"><li>Recorded what happens during general and officer meetings as seen through the 20 meetings every quarter by taking attentive and detailed notes.</li><li>Oversee the media and website committees based on new changes to the website and better quality pictures by delegating tasks to those in the committee.</li></ul> <b>SAE: Highlander Racing - Webmaster</b> <ul style="list-style-type: none"><li>Improved the website as demonstrated with feedback to improve the website by making minute changes with Squarespace.</li></ul>	<i>Nov. 2019 - Current</i>  <i>Feb. 2019 - Current</i>  <i>Apr. 2019 - Sept. 2019</i>