# SIDDHARTH SUBRAMANIAN

[linkedin.com/in/siddharthsubram](linkedin.com/in/siddharthsubram) ◇ [sidsubra.tech](sidsubra.tech) ◇ [github.com/siddharthsubram](github.com/siddharthsubram)

510-789-9076 ◇ [sid.subra@gmail.com](mailto:sid.subra@gmail.com)

## EDUCATION:

**BS in Computer Science** Minor in Statistics

University of California, Santa Cruz                                               Sept 2016 - June 2021

## EXPERIENCE:

**Undergraduate Student Researcher (under Prof. Suresh Lodha)**        Mar 2019 – Jan 2020

Advanced Data Visualization Lab (https://slvg.soe.ucsc.edu/)

- Investigated methods of optimizing response times of police stations to various threats in a given city or geo-spatial location by building a GUI using P5.js
- Designed a robust visualization of research findings that adhered to human-computer design principles
- Conducted background research to determine effective algorithms, such as Delaunay Triangulation and Voronoi Tessellation, to achieve project goals.

**Software Development Summer Intern**                                          June 2019 – Aug 2019

SproutLabs (http://www.sproutlabs.io/), Santa Cruz, CA

- Collaborated in an agile 6 member dev. team to develop an iOS application that paired newly bought sensors with Sproutlab's servers via Wi-Fi and Bluetooth technologies.
- Developed a non-generic and interactive user interface and wrote UI testing scripts using swift.

**Google IgniteCS Undergraduate Student Leader / Mentor**              Sept 2016 – June 2018

California State University, East Bay

- Helped design an appropriate curriculum to 8 batches of students across 6 different elementary and middle school campuses, which resulting in being funded $10,000 from Google.
- Worked with non-profit organizations such as YMCA and taught over 20 lessons in which students from different ethnicities and socioeconomic backgrounds created original games and programs
- Prototyped several different programming projects to teach students fundamental programming skills

## PROJECTS:

**San Jose Dragon Boat:**   Landing page for San Jose State University's Dragon Boat team. Engaged in user research strategies such as persona creation and user interviews. Adhered to university color schemes and User Experience principles. Website deployed and is receiving very positive reception;

**Used: Javascript SCSS**

**US Gender-Wage Inequality:** Analyzed gender wage gaps over several years and occupations and visualized gaps by building a user friendly interface of the data. Observed that that generally financial, legal, and executive positions tend to have the greatest gender-wage disparities.

**Used: D3.js, SQL, Excel**

## SKILLS:

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| **Languages:** | Python, Java, JavaScript, C++, C, R, SQL, Swift |
| **Web Development:** | Html, CSS, SCSS, React, D3, P5 |
| **Technologies:** | Qlik, Tidyverse, WebGL, Beautifulsoup, Git, Matplotlib, Scikit-learn, Unix, Excel |

## MISC.

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| **CSE130: Operating Systems:** | Course tutor under Professor Peter Alvaro |
| **USA Dragon Boat:** | Under-24 National Team Member |