SIDDHARTH SUBRAMANIAN

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EDUCATION

BS in Computer Science Minor in Statistics
University of California, Santa Cruz   Sept 2016 - June 2021
  Transferred from California State University, East Bay

EXPERIENCE

Undergraduate Student Researcher (under Prof. Suresh Lodha)   Mar 2019 – Jan 2020
Advanced Visualization Lab (https://slvg.soe.ucsc.edu/), Santa Cruz, CA

- 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 on algorithms such as Delaunay Triangulation and Voronoi Tesselation to understand the best implementation strategies of the project

Software Development Summer Intern   June 2019 – Aug 2019
SproutLabs (http://www.sproutlabs.io/), Santa Cruz, CA

- Collaborated in an agile 6 member devevelopment team to develop an iOS application that paired newly bought sensors with Sproutlab's servers via Wi-Fi and Bluetooth technologies
- Built non-generic user interfaces that adhered to the Sproutlabs color scheme and project goals. Built testing scripts for the user interfaces using swift

Google IgniteCS Undergraduate Student Leader / Mentor   Sept 2016 – June 2018
California State University, East Bay

- Designing an appropriate curriculum to 8 batches of students across 6 different elementary and middle school campuses, which resulted 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

US Gender-Wage Inequality Infographic
Data Visualization (https://siddharthsubram.github.io/Gender-wage-gap/)

- Analyzed gender wage gaps over several years and occupations and visualized wage gaps by building a user friendly interface of the data. Implemented sorting algorithms and interactivity to almost all visualization elements
- Observed that that generally financial, legal, and executive positions tend to have the greatest gender-wage disparities, and the wage gap is still increasing in legal occupations
- **Used: D3.js, SQL, Excel**

San Jose Dragon Boat Landing Page
Front-End Development (https://siddharthsubram.github.io/SJDB-website/index.html)

- Developed 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 is deployed and has received overwhelmingly positive feedback from a team of over 40 student athletes
- **Used: Javascript SCSS**

SKILLS

Languages:	Javascript, Python, Java, C++, C, R, SQL, Swift
Web Development:	Html, CSS, SCSS,Bootstrap, D3, P5, React
Technologies:	Git, Unix, Excel, Qlik, Git

Coursework and Activities

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