SIDDHARTH SUBRAMANIAN

sid.subra@gmail.com ◇ linkedin.com/in/siddharthsubram ◇ 510-789-9076 ◇ github.com/siddharthsubram

EDUCATION:

BS in Computer Science Minor in Statistics
University of California, Santa Cruz - 3.1 GPA   Sept 2016 - June 2021
Transferred from California State University, East Bay - 3.7 GPA

Focus Areas: Data Visualization, Probability/Statistics, Data Wrangling/Analysis, Front-End Development/Design,Computer Architecture, Operating systems, Databases, Algorithms, Applied Math, Machine Learning, Data Structures

EXPERIENCE:

CSE130: Operating Systems Course Tutor   Mar 2020 – Jul 2020
Prof. Peter Alvaro, University of California, Santa Cruz

- Created supplementary material for students on a weekly basis in order to enhance their understanding of class topics.
- Assisted students on programming assignments as well as in conceptual topics related to the class, such as threading, concurrency, and memory management.

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 with p5.js.
- 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
- Designed and prototyped several different programming projects to teach students fundamental programming skills with python and scratch programming

PROJECTS:

Yelp Bias Analysis: Conducted an investigation about biases in vegetarian versus non-vegetarian restaurant rating reviews on Yelp as presented by Yelp's sorting algorithm "Yelpsort". Built web scrapers to automate the data collection process. Discovered that Yelp's algorithm "Yelpsort" is not biased towards vegetarian or non-vegetarian restaurants, but vegetarian users tend to leave more positive reviews. Used Beautifulsoup, Seaborn, Matplotlib, Pandas, Numpy, Excel.

US wage inequality: Analyzed gender wage gaps over several years and occupations. Built a user friendly front-end interface of the data, and included features such as sorting, filtering, and interactivity. Observed that that generally financial, legal, and executive positions tend to have the greatest gender-wage disparities, while service, arts, and educational positions have less significant gender-wage gaps. Used D3.js, SQL, Excel, CSS.

SKILLS:

Languages: Python, Java, JavaScript, C++, C, R, SQL, Swift, Html, CSS
Technologies: Pandas, Qlik, Tidyverse, WebGL, Beautifulsoup, D3, P5, Matplotlib, Scikit-learn, Unix, Excel