Andrea Sudharta

sudharta.andrea@gmail.com | linkedin.com/in/andrea-sudharta | annsudhart.github.io

Education

University of California San Diego — B.S. Math and Computer Science

La Jolla, CA | Expected graduation in 2021 | GPA 3.3

- Studied OOP, Intro to Data Structures, Software Tools and Techniques, Intro to HCI, Intro to Data Science
- **SPLASH Instructor – Data Analysis with Mario Kart** (taught high school students **linear regression** basics)
- **Chair of Residence Hall Council** (Warren CleRHCs)
- **SDHacks 2019 Organizer**
- Provost Honors Fall 2018, Spring 2019

Skill

Languages: Java, C++, Python, SQL, JavaScript, HTML, CSS, SCSS, C, XML

Frameworks/Libraries: React.js, Django, Bootstrap, jQuery, Flask

Other Tools: Git/GitHub, Jupyter Notebook, bash scripting, Google Cloud API, Heroku

Experience

UCSD School of Medicine Data Programmer — github.com/UCSDMed/Department-Financial-System

March 2019 - Present

- Prototyped and built a Django web application in support of financial analysis and reporting activities
- Integrated Python scripts for connecting to and processing data from a SQL database
- Developed and integrated moderately complex transactional T-SQL queries onto a website

Projects

CardConnect — github.com/annsudhart/COGS120-CardConnect

January 2019 –March 2019

- Express.js powered web application that keeps track of business cards and the contact information in them
- Used Google Analytics to perform A/B testing and measure metrics such as clicks and page visits
- Co-designed and Implemented UI mockups, implemented JavaScript contact search bar

Carbon Footprint Calculator — github.com/absambam/Carbon-Footprint-Calculator

October 12 - October 14, 2018 (SDHacks submission)

- A Flask powered web application that takes your starting point, destination, and MPG, and uses that to calculate how much carbon dioxide is emitted
- Integrated Google Maps Directions Matrix API into Flask backend structure to give people directions from one place to another
- Designed and implemented user interface for inputting start and end destinations

Automatic Trash Sorter — github.com/annsudhart/Trash-Sorter-IEEE-QP-

October 2018 – December 2018 | IEEE Quarterly Project Event Submission – 1st Place

- Smart trash can that takes a picture of your waste, sorts it to recycling, compost, or trash, and dumps it in the corresponding bin
- Added images of general, recyclable, and compostable waste to TensorFlow training set
- Programmed motors to dump trash and rotate trash bins through the Raspberry Pi using GPIO