Alvin J. Vanegas

alvinvanegas.me
+1 (818) 632-2741
alvinjv818@gmail.com
San Diego, Ca
US Citizen

EDUCATION

University of California, San Diego
September 2015 - December 2018
Computer Science, Bachelors of Science

SKILLS

Programming Languages:
C++, C, Java, Ocaml, Python
Web Development:
HTML5, CSS3, ReactJS, Bootstrap, JavaScript
Software:
Visual Studio, Android Studio, Jupyter Notebook, Git
Languages:
English, Spanish

EXPERIENCE

Waitz | *Intern*
January 2018 - Present

- Built web application for Waitz clients to view real-time and past foot traffic data for their venues.
- Application offers clients various visualizations to view their data.
- Created a cost efficient and scalable frontend and backend framework using Amazon Web Services and ReactJS.

AP CS Principles Course | *Intern*
September 2016 - January 2017

- Worked with a team of undergrads to find ways to improve the curriculum for both students and teachers in local high schools, with the expectation that this could be offered.
- Created, checked, and improved the curriculum on two learning management systems: Canvas and Moodle.

PROJECTS

Twitter Activity Analysis | *Jupyter Notebook*

- Analyzed characteristics of tweet activity associated with the aftermath of a mass shooting using Python, natural language process frameworks and other data science techniques.
- Found that the overall sentiment towards the event was negative and tweet volume concerning the event declined rapidly.

Holistic | *Mobile Web Application*

- A smart planner that helps you break down and achieve your goals by giving you recommendations when you need them.
- Developed using HTML, CSS, Bootstrap, and Firebase.

Don't Panic | *Android/Arduino Application*

- Using the MIT App Inventor, an Arduino circuit board, and various other sensors, created a proof of concept anxiety/panic attack predictor application.
- Developed during Qualcomm's HACKJUNTOS hackathon.

Hambre | *Android Application*

- A food finder application that matches the user with a restaurant based off the user's dietary preferences and location.
- Used Yelp API for restaurant rating, location, and photos.
- Developed using Android Studio and agile methodologies.

6 Degrees of Separation | *C++ Program*

- Using a dataset from The Internet Movie Database, created a program to find the degrees of separation between any two actors in the dataset.
- Used various data structures such as graphs and hash tables to improve program runtime.
- Implemented various graph search algorithms such as Breadth First Search and Dijkstra's Algorithm.