

Alvin Vanegas

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EDUCATION

- **University of California, San Diego** La Jolla, CA
Bachelors of Science in Computer Science *Expected December 2018*

SKILLS/STRENGTHS

- **Programming Languages:** Python, C++, C, Java, OCaml **Development Tools:** Git, Android Studio
Web: Bootstrap, HTML, CSS, JavaScript/jQuery **Languages:** English, Spanish

PERSONAL PROJECTS

- **Movie Recommendation System**
Python Program *Fall 2017*
 - Using a review dataset from IMDB, created a movie recommender system using collaborative filtering and support vector machines.
- **Holistic**
Mobile Web Application *Fall 2017*
 - A smart planner that helps you break down and achieve your goals by giving you recommendations when you need them.
 - Developed using Firebase, Bootstrap, JavaScript/jQuery.
- **Don't Panic!** HackJuntos 2.0 Hackathon
Android/Arduino Application *November 2017*
 - Using the MIT App Inventor, an Arduino circuit board, and various other sensors, created a anxiety/panic attack preventor application.
- **Alonso Audio Solutions**
Web Page *Summer 2017*
 - Developed a web page for a small audio company using the Bootstrap framework.
- **Hambre**
Android Application *Winter 2017*
 - In a team of 10 developed an food finder application using the Yelp and Gmail API.
 - Used both waterfall and agile methodologies in the development process.

EXPERIENCE

- **Advanced Placement Computer Science Principles Course** La Jolla, CA
Intern *September 2016 - January 2017*
 - Contributed to improving and developing new curriculum for the UCSD tested AP CS Principles curriculum and teacher professional development course for high schoolers.
 - Created, checked, and improved the curriculum on two learning management systems: Canvas and Moodle.
 - 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.
- **Whole Foods Market** Encino, CA
Grocery Team Member *June 2013 - September 2015*
 - Trained new hires on proper protocols and product knowledge such as organic and non-GMO items.
 - Maintained constant communication between team members and other departments to ensure an optimal shopping experience.
 - Assisted in receiving, storing, and stocking of products while ensuring proper rotation and quality to provide costumers the freshest products.
- **Los Angeles Parks and Recreation** Encino, CA
Day Camp Counselor/Recreational Aide *Summer 2012 and 2013*
 - Liaison between parents and camp director due to the high number of parents and the camp director's busy schedule.
 - Organized and supervised activities for children ages 5 to 13.

COURSE PROJECTS

- **Six Degrees of Kevin Bacon** *C++Program* *Winter 2017*
 - Designed a graph structure and implemented various graph search algorithms such as breadth first search and Dijkstras algorithm.
 - Worked with data from IMDB to find the degrees of separation between any two given actors.
- **Huffman Coding** *C++Program* *Winter 2017*
 - Implemented Huffmans algorithm to encode and decode any file type.
 - Created various classes and implemented bit manipulation algorithms and data structures such as priority queues.