Yash Dani

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EDUCATION:

University of California, Davis ~ Davis, CA   **Expected June 2021**
- **Bachelor of Science in Computer Science**
- **Technology Management Minor**
- **GPA:** 3.46 / 4.00
- **Relevant Courses:** Programming and Problem Solving, Software and Object-Oriented Programming, Programming and Data Structures, Introduction to Web Development, and Computer Organization and Machine-Dependent Programming

WORK EXPERIENCE:

Web Developer and IT Support | University of California, Davis   **September 2018-Present**
- Design and develop the pages of an anthropology research website using HTML, CSS, and JavaScript
- Synch files between multiple laptops, desktops, and hard drives using SynchBackFree
- Troubleshoot any software or hardware related problems with any lab equipment

Computer Science Tutor | University of California, Davis   **January 2018-Present**
- Aid students in understanding fundamental concepts of Python, C, and C++
- Tutored students for more than 75 hours focusing on skills essential for proficiency in any coding language
- Analyzed difficult concepts students most frequently struggle to grasp and developed innovative ways to explain them

UC Davis Oneloop Controls Team Programmer - SpaceX Hyperloop Pod Competition (Structured Text)
- Cooperated with other team members to develop launch and braking instruction regulations and state diagrams
- Contributed and Edited a design report submitted to SpaceX regarding the pod functions
- Developed code for emergency braking procedures using Rockwell software in Structured Text

PROJECTS:

Help the Homies (HTML, JavaScript, Bootstrap, Google Maps API, Firebase)
- Developed a web app that allows members of a community to help the local homeless population
- Applied geolocation and Google Maps API to identify homeless people who need resources (food, clothes, etc.)
- Used Firebase's real-time database to store and maintain the latitude and longitude coordinates

Task Scheduler (PuTTY, C++)
- Created a program that optimally schedules tasks optimally using a priority queue
- Implemented a priority queue class using a left leaning red black tree that holds task by their runtime
- Coded the program so tasks are performed in an optimal order given their start time and runtime similar

Weather Anywhere (HTML, CSS, JavaScript, Java, OpenWeatherMap API, Android Studio)
- Built an android app using a WebView that provides the weather at any city in the world
- Employed JavaScript to send inputted city to OpenWeatherMap's API and to extract appropriate weather information
- Constructed a class of JavaScript interface functions in the Java code to allow the JavaScript code to run

Calculator (HTML, CSS, JavaScript, jQuery)
- Fabricated a calculator that can be used with buttons on screen or keys from a keyboard
- Designed using a paragraph element and an HTML5 table of buttons
- Implemented onclick events for buttons on-screen and key-up jQuery events for keyboard keys

SKILLS:
- **Programming Languages:** C++, HTML, CSS, JavaScript, C, Python, assembly language, Structured Text
- **Technologies/Frameworks:** jQuery, Google Cloud Platform, Open Weather Map, PuTTY, Arduino, Linux/Unix OS, Microsoft Offices, Firebase, SynchBack Free, WinSCP, Android Studios, CUSP