Derek Lee

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EDUCATION

Bachelor of Science in Computer Engineering, June 2020

University of California, Davis

Languages: HTML, CSS, C++, C, Python, JavaScript, Bash

Operating Systems: Windows, Linux

Technologies: jQuery, Bootstrap, Git, JSON

Related Coursework:

- Created a C++ program to build a priority queue with an underlying binary heap implementation to implement HeapSort on a JSON file
- Created a C++ program that executes the heap operations from a JSON file and print out the priority queue as a JSON object
- Created a C++ program to execute instructions from a JSON file to build an AVL Tree

PERSONAL PROJECTS

Personal Website (http://dereklee.tech/)   November 2017- Present
(**https://github.com/DerLee4/DerLee4.github.io**)

- Build personal website using HTML, CSS, JavaScript, jQuery plugin BookBlock, jQuery plugin jScrollPane jQuery plugin jQuery Mouse Wheel, and Bootstrap

Energgie (https://github.com/DerLee4/Energgie)   January 2018

- Navigated OBIsoft's PI Web API data on UC Davis with a three-person team to develop a linear regression module in MATLAB to predict energy demand usage in buildings on UC Davis

EXPERIENCE

Teacher's Assistant - Code a Live Website!,   January 2018 – Present
 UC Davis Student Startup Center – Davis, CA

- Develop jQuery exercises to teach to 90 students of UC Davis
- Assist students and debug websites using HTML, CSS, and JavaScript

Physical Computing Intern, UC Davis Center for Integrated Computing and   January 2018 – Present
STEM Education (C-STEM) – Davis, CA

- Develop and test C/C++ programs to create new chapters in the textbooks used for the C-STEM Center's Arduino and Raspberry Pi curriculum for both K-12 and Community College students to all UC campuses
- Ensure existing curriculum works by finding bugs, defects and verifying fixes
- Communicate technical concepts/issues clearly to the Director and colleagues

Projects Member, The Institute of Electrical and Electronics Engineers (IEEE)   October 2017 – Present
at UC Davis – Davis, CA

Swarmbots Project – 24 members

- Create the Swarmbots website using HTML, CSS, JavaScript, and Bootstrap
- Use Arduino to develop PS4 controlled robots to play soccer

Software Developer, NOVUS Junior Enterprises – Davis, CA   March 2017- December 2017

- Taught HTML and CSS tutorials to students of UC Davis
- Maintained NOVUS Junior Enterprises website by fixing bugs using HTML, CSS, JavaScript, and PHP