

DEREK LEE

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EDUCATION

University of California, Davis

Bachelor of Science Computer Engineering 2020

EMPLOYMENT

SacHacks, *Web Developer*, Sacramento, CA

Apr. 2018 - Current

- Utilize HTML, CSS, JavaScript, and Bootstrap for the SacHacks main website (<http://sachacks.io/>) and SacHacks live website that contains the schedule, countdown, and technology available to use during event
- Specialize in optimizing design of website under instructions of SacHacks designer
- Jump into project after old web developer left project and edit SCSS files to run on Node.js server

UC Davis Student Startup Center, *Teacher's Assistant - Code a Live Website!*, Davis, CA

Jan. 2018 - June 2018

- Assisted over three hundred students during workshops and office hours by debugging Bootstrap websites using HTML, CSS, and JavaScript
- Developed jQuery exercises for one of the workshops to teach to students of UC Davis

UC Davis Center for Integrated Computing and STEM Education (C-STEM), *Physical Computing Intern*, Davis, CA

Jan. 2018 - Aug. 2018

- Developed and tested C/C++ programs to create new curriculum used for the C-STEM Center's Arduino and Raspberry Pi curriculum for both K-12 and Community College students to all UC campuses
- Ensured existing curriculum works by finding bugs, defects and verifying fixes
- Communicated technical concepts/issues clearly to the Director and colleagues
- Documented issues and fixes for future use

SKILLS

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

OPERATING SYSTEMS: Windows, Linux

TECHNOLOGIES: jQuery, Bootstrap, Git, SCSS, JSON, Node.js, ExpressJS, Passport, Mongoose, RESTful Routing

PROJECTS

YelpCamp (<https://derek-lee-yelpcamp.herokuapp.com/>)

July 2018 - Current

- Create a fictional full stack web application with full CRUD functionality for reviewing campsites, using Node.js, ExpressJS, Mongoose, RESTful Routing, Passport, jQuery, JavaScript, and Bootstrap
- Design and implement this Yelp style website for campsites that supports user log in, comments posting and reviewing, and previous submissions editing
- Design and implement MongoDB infrastructure to store reviews/comments data and relevant information associated with users and campsites

Personal Website (<http://dereklee.tech/>)

Nov. 2017 - Current

- Build personal website using HTML, CSS, JavaScript, jQuery plugin BookBlock, jQuery plugin jScrollPane jQuery plugin jQuery Mouse Wheel, and Bootstrap (<https://github.com/DerLee4/DerLee4.github.io>)

TI RSLK robot

Apr. 2018 - June 2018

- Used C to implement an audio electronic system on a TI RSLK robot to record audio signals and locate the direction of music that is being played in the room

JSON C++ Programs

Jan. 2018 - Mar. 2018

- 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