Saad Abdul Quddus

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EDUCATION

University of California, Davis

Davis, CA

Graduation Date: June 2022

Undergraduate - Bachelor's of Science in Computer Science

- Cumulative GPA: 3.8 | Davis Computer Science Club Member
- UC Davis Dean's Honors recipient 5 quarters in a row (Fall 2019 Winter 2020)
- Fluent in: English, Urdu, Hindi, Arabic, French (Seal of Biliteracy)
- Relevant Coursework: Discrete Math, Introduction to Programming in Python, Programming & Problem Solving in C,
 Software Development & Object-Oriented Programming in C++, Data Structures, Algorithms, & Programming in C++,
 Algorithm Analysis and Design, Computer Organization & Machine-Dependent Programming in x86 Assembly in C, Linear Algebra, Calculus Series

WORK EXPERIENCE

Code Camp Instructor

Folsom, CA

Programming Instructor for the Muslim Community of Folsom's Code Camp 2019

May 2017 - September

- Encouraged students aged 10-15 to express their creativity through problem solving on Python.
- Designed and established an upgraded system for running classrooms which encouraged higher test scores. After incorporating the system, 45% of students received higher grades by a factor of 10-20%.

Private Calculus Tutor

Folsom, CA

Customer Service Representative

June 2018 - December

2019

- Tutored students aged 16-18 in Calculus 1, 2 & 3 for 8-14 hours a week.
- Taught multiple different levels of Calculus to students.
- 75% of students increased the number of weekly tutoring sessions.

LEADERSHIP EXPERIENCE & PROJECTS

UC Davis Farm Improvement Project

Davis, CA

Arduino framework using C

November 2020 - December 2020

- Managed a team of 4 students to model an automated lighting system, using arduino framework, for the UC Davis farm which had no available light during the night.
- Devised solutions during times of dissension and discord. Team was able to harmoniously strategize and achieve excellent results.
- Developed a C file which programmed an automated lighting system, involving light-sensors, motion sensors, LEDs, through arduino. Program involved mostly while loops calling on boolean functions.
- 3D-Printed a model of the lighting system. Project was presented to a panel of engineering judges at the UC Davis STEM expo.
- Achieved a 95% approval rate for our design.

Project Library Database

Davis, CA

Linux environment in C++ language

November 2020

- Incorporated an object-oriented program with Binary Heap Algorithm in C++ working with a JSON Library database
- Implemented quicksort, mergesort, binary search, and linear search. Performed CPU speed tests for each algorithm.
- Program was **over 4x faster** than its first prototype.
- Program was used by many students in UC Davis classes to organize their projects, homeworks and other deadlines.

SMUD Solar Boat Interscholastic Competition

Sacramento, CA

Manufacturing & Hardware

October 2017 - May 2018

- Worked within a team of 8 to design and build a solar powered boat for the 2018 SMUD Solar Boat regatta.
- Managed conflicts between team members and promoted team building.
- Achieved **1st place** in the maneuverability test and displayed impressive results in the competition and performed an excellent presentation to a panel of engineers, describing the design process and problem solving strategies involved.

TECHNICAL SKILLS