FATIMA SHAIK

fzshaik@ucdavis.edu ◇ 510-608-4846 ◇ github.com/fatimazshaik ◇ linkedin.com/in/fatima-shaik ◇ fatimazshaik.github.io

SKILLS

Programming	Python, Java, C, HTML, CSS, Javascript, C++
Hardware	Arduino, Texas Instruments, Altium Designer, LT Spice, OrCAD, Circuit Design
Other	Autodesk Fusion 360, Adobe Photoshop, Adobe Illustrator, HubSpot

WORK EXPERIENCE

Girls Who Code June 2022 - August 2022
Summer Immersion Program Teacher Assistant *Virtual*

· Taught students, with limited coding experience, how to build websites using HTML, CSS, & JavaScript

· Helped students learn programming basics like variables & functions through live coding sessions and code samples

· Held office hours where I debugged student's websites and sat with students to help them reinforce the material

· Organized code-alongs where students were tasked to solve common coding errors in sample projects

Skoruz June 2021 - September 2021
Product Marketing Intern *Newark, CA*

· Created posts and content for a social media campaign on Instagram that increased follower count by 10x

· Created a brand template for promotional content for Skoruz's new ventures to capture VC funding

· Re-design packaging for one of Skoruz's Food Brands by researching current market trends and introducing a thematic identity

PROJECTS

Sound-Controlled Robot
C, MSP432E401Y 32-bit Microcontroller

· Designed low pass & high pass filters and soldered components onto a ProtoBoard to filter & minimize noise.

· Optimize the robot's movement by controlling PWM signals and continuous ADC sampling

LED Sign Board
C, MSP432E401Y 32-bit Microcontroller, Altium, Fusion360

· Used Altium to design a custom PCB and Fusion360 build a 3D rendering of the enclosure

· Programmed the micro-controller to produce various patterns of light through toggling the state of pins

· Controlled intensity and speed of lights by mapping PWM signals

Car-Server Communication
C++, json-rpc-cpp

· Designed a solution that enables communication between autonomous vehicles in C++ & remote-procedural calls

· Programmed each car to be a server and client of each other so that information can be passed between each car

Shopping Cart
Python 3

· Built a basic shopping cart experience that allows customers to add and remove items from the cart

· Built an original design using a UML diagram and then built out the program in Python

· Used inheritance to create categorical base classes and created corresponding children classes

EDUCATION

University of California, Davis June 2025 (Expected)
B.S. Computer Engineering, GPA: 3.719/4.0 *Davis, CA*

Relevant Coursework: Data Structures & Algorithms, Object Oriented Programming in C++, Programming in Micro-Controllers, Circuits II, Control Systems, Programming in Python, Programming in C, Introduction to Digital & Analog Systems, EE Emerge II
Planned Coursework: Algorithm Design & Analysis (Spring 2023), Digital Systems I (Spring 2023)