

# Mehboob Hussain

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## EDUCATION

### University of Denver

Denver, CO

B.S in Computer Science & Minor in Mathematics and Middle Eastern Studies

Expected Graduation: June 2026

## SKILLS

**Languages:** Python, Java, JavaScript, TypeScript, C/C++, SQL, HTML/CSS, MATLAB

**Frameworks & Tools:** React, Node.js, Flask, Docker, Postman, Chrome DevTools, Arduino

**Systems & Platforms:** REST APIs, Git, Linux, Firebase, Vercel

## EXPERIENCE

### Freelance Frontend Developer – Lady Fatima Center

November 2025 – Present

- Owned frontend development and QA for a production **React** application by implementing **component-based UI architecture**, **responsive layouts**, and **manual regression testing** across desktop and mobile devices.
- Integrated and validated external **REST APIs** (e.g., **Aladhan API**) using **asynchronous data fetching**, **structured state management**, and **input validation**, stabilizing data flow and reducing fetch and rendering errors by ~30%.
- Debugged cross-browser and responsive layout issues using **Chrome DevTools** (**DOM inspection**, **network tracing**, **device emulation**), applying targeted fixes that reduced UI inconsistencies by ~25%.

### Software Engineer Intern – MedGeo Ventures

Summer 2025

- Implemented and shipped user-facing frontend features using **React**, supporting core application workflows within a production web platform.
- Debugged **data validation issues and edge-case failures** by reviewing API responses, adjusting frontend logic, and manually testing fixes, resulting in a ~25% improvement in application reliability.
- Collaborated with **engineers**, **product managers**, and **designers** in an Agile environment to refine rendering and interaction flows, supporting frontend optimizations that contributed to **~20% faster load times**.

### Operations Manager – A&M Premier Movers

May 2022 – October 2023

- Designed and streamlined digital workflows for scheduling, quoting, invoicing, and job tracking, reducing administrative overhead by 40%.
- Managed logistics and execution for 20+ client projects, ensuring 100% on-time completion and a 98% customer satisfaction rate.

## Leadership

### Youth Program Lead – Al-Mahdi Youth Organization

2021 – 2025

- Co-led community programs, overseeing logistics, scheduling, and volunteer coordination to ensure consistent, well-organized events.

### Group Collaborator – University of Denver E-STEM

2022 – 2023

- Participated in community outreach, networking, and career development initiatives supporting student engagement in STEM.

## PROJECTS

### Guided Text Reader – React Web Application

- Built a React-based web application focused on structured text consumption using component-based UI, clear content segmentation, and accessible layouts.
- Designed predictable content flows and progress cues to support repeated use by real **users** and reduce cognitive load during long-form reading.

### Thani – Mobile Application (DU Hackathon)

- Collaborated with a student team to test mobile features for navigation, real-time updates, and cross-device behavior during development.
- Identified and logged UI and functional bugs, contributing to improved demo stability and a top-3 placement among competing university teams.

### PyShell – Custom Python Terminal Emulator

- Developed a Python-based terminal emulator replicating core Unix commands within a custom virtual file system.
- Implemented a tree-based data structure and applied object-oriented design to manage directories, commands, and error handling in a modular, testable codebase.

### Embedded Systems Project – Arduino Tripwire System

- Developed an Arduino-based motion detection system integrating hardware input with software control logic to trigger automated responses.
- Implemented a JSON-based serial communication protocol for configuration, status reporting, and error handling, enabling modular and extensible hardware-software interaction.